CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
July 17	Barnum, Minn.	July 13
July 18	Gillett, Ark. Adv. June 29 to July 13.	June 29
July 18	Wilmington, N. C.	June 29
July 18	Fayetteville, Tenn.	June 29
July 18	Raybrook, N. Y. Adv. July 6 and 13.	July 6
July 18	Madison, Wis.	July 13
July 19	Saugerties, N. Y.	June 29
July 19	Peru, N. Y.	July 13
July 20	East Orange, N. J.	July 6
July 25	East Syracuse, N. Y.	July 13
July 28	Ebensburg, Pa.	July 13
July 31	Murdo, S. D.	July 13
Aug. 7	Mitchell, S. D. Adv. July 13.	July 13

SEWERS

July 17	Yankton, S. D.	July 6
July 17	Creston, Ia.	July 13
July 17	Redwood City, Cal.	July 13
July 18	Lake Forest, Ill.	June 15
July 18	Newark, N. J.	June 29
July 18	Nashville, Tenn.	July 6
July 18	Miami, Fla. Adv. July 6 and 13.	July 13
July 18	Phila., Pa.	July 13
July 19	Camden, N. J.	June 22
July 20	New York, N. Y.	July 13
July 21	Mt. Kisco, N. Y.	July 13
July 24	Hackensack, N. J.	June 29
July 24	Annville, Pa. Adv. July 13.	July 13
July 25	Oklahoma City, Okla. Adv. July 13.	July 13
July 25	Gloversville, N. Y. Adv. July 13.	July 13
July 26	Louisville, Ky. Adv. July 13.	July 13
July 26	Miami Beach, Fla.	July 13
July 26	Rye, N. Y. Adv. July 13.	July 13
July 27	Brainerd, Minn.	July 13
July 31	Indianapolis, Ind. Adv. July 13.	July 13
Aug. 1	Lake Worth, Fla. Adv. July 13.	July 13
Aug. 2	Avon, S. D.	July 13
Aug. 4	Gregory, S. D.	July 13

WASTE DISPOSAL

July 17	Wash., D. C.	July 6
July 18	New Kensington, Pa.	June 29
July 31	Chatham, Ont. Adv. July 13.	July 13
July 25	Buffalo, N. Y.	June 22

BRIDGES

July 17	Ripley, W. Va.	July 13
July 18	Missouri	July 13
July 19	Alabama	June 29
July 20	Alabama	June 29
July 21	Cobleskill, N. Y. Adv. July 6 and 13.	July 6
July 21	Nashville, Tenn.	July 13
July 24	California	July 13
July 25	Alabama	July 6
July 25	North Carolina	July 6
July 25	North Carolina	July 13
July 26	South Carolina	July 13
July 28	Tennessee	July 13
July 29	Cleveland, O.	July 13
Aug. 4	Seattle, Wash.	June 29
Aug. 29	Wellington, New Zealand	July 13
Oct. 1	Siam	July 13
Oct. 31	Sydney, Australia	Jan. 12

EXCAVATION AND DREDGING

July 18	Beardstown, Ill.	July 13
July 25	Brooklyn, N. Y. Adv. June 29 to July 13.	June 29
July 25	Lawtell, La.	July 13
July 26	Olivia, Minn.	July 13
Aug. 10	Wooster, O. Adv. July 13.	July 13
Aug. 15	Ft. Lauderdale, Fla. Adv. July 13.	July 13

STREETS AND ROADS

July 14	Ann Arbor, Mich. Adv. June 29 to July 13.	June 29
July 17	Guntersville, Ala.	July 6
July 17	California	June 29
July 17	Ohio	July 6
July 17	Richmond, Va.	July 6
July 17	Redwood City, Cal.	July 13
July 17	Leechburg, Pa. Adv. July 13.	July 13
July 17	St. Paul, Minn.	July 13
July 17	San Rafael, Cal.	July 13
July 17	Illinois	July 13
July 17	Fond du Lac, Wis.	July 13
July 17	Oakville, Ont.	July 13
July 18	Farmersville, Tex.	July 13
July 18	Watertown, Wis.	July 13
July 18	Michigan	July 6
July 18	Quincy, Fla.	June 22
July 18	Moundsville, W. Va.	June 29
July 18	South Carolina	June 29
July 18	Kennett, Mo. Adv. July 6 and 13.	July 13
July 18	Westwood, N. J. Adv. July 13.	July 13
July 18	Miami, Fla. Adv. July 6 and 13.	July 13
July 18	Sanford, Fla.	July 13
July 18	Wisconsin	July 13
July 18	Trenton, N. J.	July 13
July 18	Sterling, Ill.	July 13
July 18	St. Joseph, Mich.	July 13
July 19	Alabama	June 29
July 19	Michigan	June 29
July 19	Rhode Island Adv. July 6 and 13.	July 6
July 19	Michigan	July 6
July 19	Columbus, O.	July 6
July 19	Wisconsin	July 13
July 19	Shawano, Wis.	July 13
July 20	Moundsville, W. Va.	July 13
July 20	North Adams, Mass. Adv. July 13.	July 13
July 20	Edenton, N. C.	July 6
July 20	Anderson, S. C.	July 13
July 20	Huntington, W. Va.	July 13
July 20	Michigan	July 13
July 20	Akron, O.	July 13
July 20	Dayton, O.	July 13
July 21	Portland, Me.	June 29
July 21	Belvidere, N. J. Adv. July 6 and 13.	July 6
July 21	Michigan	July 13
July 21	New York Adv. July 6 and 13.	July 13
July 21	Bushnell, Fla.	July 13
July 21	Athens, O.	July 13
July 21	Tyler, Tex.	July 13
July 21	Thibodoux, La.	July 13
July 22	Palatka, Fla.	June 29
July 22	Columbus, O.	July 13
July 23	Ebensburg, Pa.	July 13
July 24	Ripley, W. Va.	July 13
July 24	California	July 13
July 24	Columbia, Mo. Adv. July 13.	July 13
July 25	Syracuse, N. Y. Adv. June 29 to July 13.	June 29
July 25	Cameron, Tex.	July 13
July 25	Louisiana	July 13
July 25	Alabama	July 6
July 25	Maryland Adv. July 13.	July 13
July 25	North Carolina Adv. July 13.	July 13
July 25	Clarksburg, W. Va.	July 13
July 26	Westfield, Mass. Adv. July 13.	July 13
July 26	Delaware Adv. July 13.	July 13
July 26	Michigan	July 13
July 28	Larned, Kan.	July 13
July 28	Tennessee	July 13
July 29	Wheeling, W. Va.	July 13
July 31	California	July 13
July 31	Greenville, N. C. Adv. July 6 and 13.	July 13
July 31	Washington, Pa. Adv. July 13.	July 13
Aug. 1	Minnesota	July 13
Aug. 1	Oil City, Pa. Adv. July 13.	July 13
Aug. 2	Minnesota	July 13
Aug. 4	Roswell, N. M. Adv. July 13.	July 13
Aug. 9	Ft. Myers, Fla.	July 6
Sept. 19	New Orleans, La.	July 6

INDUSTRIAL WORK

July 15	Cleveland, O.	July 13
July 15	Pittsburgh, Pa.	July 13
July 17	Branford, Conn.	July 13
July 18	Quincy, Fla.	June 22
July 28	Homestead, Fla.	June 29

BUILDINGS

July 15	Pittsburgh, Pa.	July 13
July 15	Vandergrift, Pa.	July 13
July 16	Mentor, O.	July 13
July 17	Urbana, Ill.	June 15
July 17	Rock Rapids, Ia.	June 22
July 17	Syracuse, N. Y.	June 29
July 17	Fargo, N. D.	June 29
July 17	New York, N. Y. Adv. July 6 and 13.	July 13
July 18	Renfrew, Ont.	July 6
July 18	Cleveland, O.	July 13
July 18	Brooklyn, N. Y.	July 13
July 18	New Britain, Conn.	July 13
July 18	Dalton, Ga.	July 13
July 19	Rosewood, N. C.	July 6
July 20	New York, N. Y.	July 6
July 20	Lincoln, Neb.	July 6
July 20	Hamtramck, Mich.	July 13
July 21	Berkeley, Cal.	July 13
July 21	Clinton, Wis.	July 13
July 21	Atlanta, Ga.	July 13
July 28	Dickinson, N. D.	July 13
July 30	Westwood, N. J.	June 22
Aug. 2	Berkeley, Cal.	July 13
Aug. 2	Brunswick, Ga.	July 13
Aug. 5	Belfast, Me.	July 13
Aug. 20	Erie, Pa.	July 13
Sept. 30	Duluth, Minn.	July 13

FEDERAL GOVERNMENT WORK

July 15	Refrigerating and Ice-Making Plant—Memphis, Tenn. Adv. July 6 and 13.	July 6
July 17	Metal Work — Louisville, Ky. Adv. June 22 to July 13.	June 22
July 17	Rubble Mound — Ashtabula Harbor, O. Adv. June 22 to July 13.	June 22
July 17	Conduit—Wash., D. C.	June 22
July 17	Steel Ladder, etc. — New Orleans, La.	June 22
July 18	Piling—Louisville, Ky. Adv. June 22 to July 13.	June 22
July 18	Fire Alarm System—Tuskegee, Ala.	June 29
July 19	Steel Hull — Pittsburgh, Pa. Adv. June 22 to July 13.	June 22
July 19	Cornice, etc. — Oswego, N. Y.	June 29
July 20	Mailing Shed — Sheboygan, Wis.	June 29
July 20	Levee Work — Memphis, Tenn. Adv. July 6 and 13.	July 13
July 22	Dredging—Petaluma, Cal.	July 13
July 25	Wire Mesh, etc.—Memphis, Tenn. Adv. July 13.	July 13
July 27	Breakwater Extension — Fairport, O. Adv. July 6 and 13.	July 6
July 31	Steel Hull — Montgomery, Ala. Adv. July 6 and 13.	July 6
July 31	Hospital, Norfolk, Va. Adv. July 13.	July 13
Aug. 2	Dredges—Wash., D. C.	June 15
Aug. 2	Ordnance Buildings, etc.—Pearl Harbor, H. T.	June 15
Aug. 2	Distilling Plant—Key West, Fla. Adv. July 13.	July 13
Aug. 7	Dredging, etc. — New York, N. Y. Adv. July 6 and 13.	July 6
Aug. 7	Dredging—Camden, N. J. Adv. July 13.	July 13
Aug. 18	Radial Gates, etc.—Riverton, Wyo. Adv. July 13.	July 13

MISCELLANEOUS

July 17	Heating, Ventilating, etc. — Urbana, Ill.	June 22
July 17	Stadium Addition — Madison, Wis.	July 6
July 17	Fabricated Steel Works—Pittsburgh, Pa. Adv. July 13.	July 13
July 17	Paving Materials—St. Paul, Minn.	July 13
July 18	Pier Sheds, etc.—Portland, Me.	June 22
July 18	Stone Crusher and Elevator —Preston, Minn.	July 6
July 19	Turbine and Accessories — New Orleans, La. Adv. May 18 to July 13.	May 18
July 19	Engine-Generator Unit—Belhaven, N. C.	June 29
July 20	Grand Stand — Detroit, Mich.	July 13

Bids Close		See Eng. News-Record
July 20	Asphaltic Paving Cement—New York, N. Y.	July 13
July 21	Lumber, etc. — New York, N. Y.	July 13
July 24	Pier—Sarasota, Fla.	July 13
July 25	Frogs, Switches, etc. — New York, N. Y.	July 13
July 26	Wharf and Transit Shed Foundation—Tampa, Fla. Adv. July 6 and 13.	July 6
July 26	Fill—Tampa, Fla.	July 13
July 31	Paving Brick—Washington, Pa. Adv. July 13.	July 13
Aug. 7	Engines and D. C. Generators —Rome, N. Y. Adv. July 13.	July 13
Aug. 15	Hydro-electric Development—Dothan, Ala. Adv. June 22 to July 13.	June 29
Aug. 15	Foundation — Minneapolis, Minn.	July 13

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Canandaigua—Plans to construct mains incl. 2¼ mi. 16 in. pipe from reservoir. $656,000.

N. Y., Jamestown—Dept. Water & Light plans 16 in. iron main in Harrison St. from Winsor to Sprague Sts. $30,000-$40,000. L. Bergman, city engr.

Pa., Braddock—Plans to vote on $18,000 bonds for water supply distribution system for fire purposes.

Va., Scottsville—See "Industrial Works."

N. C., Forest City—Takes bids about Sept. 1, new filter unit. $50,000. Carolina Eng. Co., Wilmington, engrs.

N. C., Lincolnton—Takes bids latter part of July, water and sewer extensions. $75,000. Carolina Eng. Co., Wilmington, engrs.

N. C., Wilmington—Plans to remodel filter plant and pump station, also construct new pipe line to Toomeys Creek, and 48 in. Main under Cape Fear River. $400,000. Carolina Eng. Co., Wilmington, engrs.

O., Columbus—Franklin Co. making plans waterworks system in Clinton Twp. Dist. 2, 12,630 ft. 6 in. cement, 3,570 ft. 8 in. wood and 2,540 ft. 12 in. c.i. pipe, etc. $40,000. E. G. Bradbury, 174 East Long St., engr.

O., Rome—Making plans 13,500 ft. c.i. mains in Perry Twp. Dist. 1. $30,000. E. G. Bradbury, 174 East Long St., Columbus, engr.

Wis., Baraboo—G. McCarthen Co. plans 1 story hydro-electric power plant, brick and rein.-con. $45,000. Architect not selected.

Wis., Taylor—Had plans prepared building and equipping 1 story, pumping station, brick, rein.-con. and steel, plain foundation. $60,000. W. S. Wards, La Crosse, engr. W. E. Bennett, Batavian Bank Bldg., La Crosse, archt.

Kan., Hartford—Plans complete new waterworks and sanitary sewers. E. T. Archer, 209 New England Bldg., Kansas City, Mo., engrs.

Kan., Nortonville—Having plans prepared for waterworks and sewers. Shockley Eng. Co., Graphic Arts Bldg., Kansas City, Mo., engrs.

Kan., Robinson—Plans complete new waterworks and sanitary sewers. E. T. Archer Co., 209 New England Bldg., Kansas City, Mo., engrs.

Mont., Glendive—Making plans extensions to waterworks. $60,000. A. Colin, clk.

Okla., Chickasha—Voted $40,000 bonds for water mains, $10,000 bonds for sewerage system.

Cal., Napa—Plan election to vote on $600,000 bonds to purchase privately owned water system. $240,000 of issue will be used to construct system to bring water from Milliken Canyon to Napa.

Que., Jonquieres—Plans waterworks system. $20,000. F. Grenon, Chicoutimi, engr. in charge.

Ont., Etobicoke—Had plans prepared and soon takes bids for waterworks system in Area 3, incl. 11,700 ft. 8 in. and 7,700 ft. 6 in. c.i. pipe, valves, hydrants, pumps and pumphouse. $60,000. F. Barber, 40 Jarvis St., Toronto, engr.

BIDS DESIRED

N. Y., East Syracuse—July 25, new reservoir. $100,000. S. S. Adcock, 109 West Ellis St., engr. Noted June 29.

N. Y., Peru — July 19, by Bd. Water Comrs. concrete and earth dam, gatehouse, chlorinator and 3.6 mi. pipe line, etc. Former bids rejected. R. L. Signor, Plattsburgh, engr.

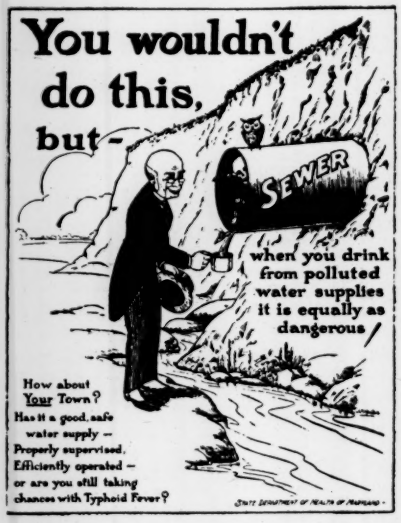
Pa., Ebensburg—July 28, by H. T. Jones, controller Cambria Co., 5,700 lin.ft. 4 in. c.i. pipe from reservoir to storage tank on Camvruc poor farm. H. F. Dorr, Trust Bldg., engr.

Wis., Madison—July 18, deep well and equipment for water supply. Mead & Seastone, State Journal Blk., engrs. Noted May 18.

Minn., Barnum—July 17, by A. D. Dathe, clk., waterworks system, incl. distribution system, pumping machinery, etc., $21,800; sewerage system, 5,000 lin.ft. 8-12 in. vitr. tile sewers, 15 manholes, 3 lampholes, 2 outfalls, $10,300. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs. Noted June 29 under "Sewers."

S. D., Avon—See "Sewers."

S. D., Mitchell—Aug. 7, at office F. McGovern, city aud., extending mains. F. J. Henson, city engr.; adv. this issue.


You wouldn't do this, but—
SEWER
when you drink from polluted water supplies it is equally as dangerous
How about Your Town? Has it a good, safe water supply — Properly supervised, Efficiently operated — or are you still taking chances with Typhoid Fever?

S. D., Murdo—July 31, waterworks system incl. 12,740 ft. mains, elevated tank, pumping station and earth dam. Dakota Eng. Co., Western Natl. Bank Bldg., Mitchell, engrs.

BIDS RECEIVED

O., Cleveland—Opened bids June 30, placing 3,750 cu.yd. rubble concrete on crib pocket at Crib 3, 3.8 mi. from Cuyahoga River, from Amer. Constr. Co., Marion Bldg., $81,082; Great Lakes Dredge & Dock Co., Williamson Bldg., $89,332; Cleveland Eng. Constr. Co., 778 The Arcade, $127,770. Noted June 22.

Tex., Childress—Filtration plant, etc., (Item 3), from Brown & Fender, Kaufman, $32,938; Merkle Mchy. & Contg. Co., 1733 Walnut St., Kansas City, Mo., $43,000; Janes Contg. Co., Dallas, $47,900. Noted April 27.

Wash., Walla Walla—Water Comn. opened bids June 27, constructing Div. 2 waterwork system, incl. laying 4 mi. of 20 in. pipe, dirt road along pipe line, telephone system, etc., (a) concrete pipe, (b) steel, (c) wood, from Puget Sound Bridge and Dredging Co., Central Bldg., Seattle, (a) $157,627, (b) $142,244, (c) $106,815; Walla Walla Concrete Pipe Co., Walla Walla, (a) $139,256. Noted June 29.

CONTRACTS AWARDED

Me., Auburn—Extending water system., to F. A. Rumery Co., 21 Portland St., Portland, $17,253; 1,200 ton c.i. pipe, to Donaldson Iron Co., Emaus, Pa., $48.70 per ton, specials, $0.055 per lb. Engrs. est. over $50,000. Noted May 4.

Vt., North Bennington—Water supply system and sewerage system, incl. dam and collecting pond, 2,225,000 gal. distributing reservoir, to J. Long, Leominster, Mass. Temporary address, South Shaftsbury, Vt. Engrs. est. $200,000. Noted May 4.

N. J., Bordentown—Commissioner of Education, State House, Trenton, complete water supply system incl. distribution system, to J. R. Proctor, 16 West 9th St., Bayonne, $6,286; steel tank, tower and pump house, to Chicago Bridge & Iron Wks., 30 Church St., New York, $6,450. Noted June 8.

Pa., Morrisville—Filtration plant and appurtenances, to Simpson, Brown & Co., 90 West St., New York, $29,360. Noted June 15.

Pa., Reading—To G. H. Meinholz, Reading, foundations and suction vault for Pump 4 at Maiden Creek pumping station, Contr. 24, $10,870; to United States Cast Iron Pipe & Fdry. Co., 1421 Chestnut St., Phila., c.i. pipe and specials, Contr. 25, incl. 3,080 lb. 4 in., 10,750 lb. 6 in., 78,600 lb. 36 in. Class C, 75,200 lb. 36 in. and 8,000 lb. 48 in. Class A, "B & S" pipe, prices range from $2.645 to $2.745, specials $7.103 and $7.665, total $9,989; to Acker Drilling Co., Scranton, test borings for Maiden Creek impounding dam, Contr. 26, $2,941. Noted June 22.

N. C., Hendersonville—Constructing reservoir and 1½ mi. pipe line connecting with intake at water shed, to Wilson & Kelly, Asheville, $181,000. Noted June 1.

N. C., Morganton—For 12 mi. 12 in. c.i. bell and spigot water pipe from reservoir to stand pipe, to Boyd, Higgins & Gojorth, Charlotte, $195,000. Noted April 13.

N. C., Mt. Holly—Constructing waterworks and sewerage systems to W. A. Everett, Charlotte. $75,000.

Ill., Maywood—Drilling artesian well to S. B. Geiger, 37 West Van Buren St., Chicago. Noted June 22.

Ia., Storm Lake—General contract for concrete pumping station, to W. F. Park & Co., Storm Lake, $6,523. Noted June 15.

Tex., Childress—Dam, spillway, etc., (Item 1), to F. P. McElwrath, Corsicana, $144,546; pipe line, pump house, etc., (Item 2), to Hamilton Bros. Constr. Co., Taylor, $177,124. Noted April 27.

Okla., Wewoka—Filtration plant, intake and repairing dam, to Yates & Gallamore, Cushing, $38,524. Noted June 22.

Cal., Presidio (San Francisco P. O.)—Pump House, etc.—J. W. Roberts, Post Office Bldg., San Francisco, for pump house, pump equipment and fire protection system, at Marine Hospital, here, from Eng. Structures Co., Call Bldg., $21,580; Schultz Constr. Co., 46 Kearney St., $23,500; Burnham Plumbing Co., 1220 Webster St., $23,900. Above contractors in San Francisco. Noted June 29.

Sewers

PROPOSED WORK

N. Y., Blasdell—Bd. Village Trustees preparing plans sewerage system. $50,000. F. K. Wing Co., Prudential Bldg., Buffalo, engrs.

N. C., Lincolnton—See "Waterworks."

O., Akron—Aug. 8, to vote on $3,000,000 bonds extending and enlarging sewerage system. It is estimated that $852,805 ft. of sewers are needed, and will cost $6,643,590. The $3,000,000 bonds is for a 3 year program of sewer expansion, additional money will be voted on when this is expended. J. E. Root, Delaware Bldg., engr.

Wis Milwaukee—Making plans sewer connections with sewers emptying into Lake Michigan, also 2 sewer ejectors, one at South Shore Park, other at Bradford Beach. $31,000. G. Staal, City Hall, engr.

Kan., Hartford—See "Waterworks."

Kan., Nortonville—See "Waterworks."

Kan., Robinson—See "Waterworks."

Okla., Chickasha—See "Waterworks."

BIDS DESIRED

N. Y., Gloversville—July 25, constructing sanitary sewers. H. J. Hammer, city engr.; adv. this issue.

N. Y., Mt. Kisco—July 21, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, resanding existing filter beds and constructing new filter beds at Mt. Kisco Sewage Disposal Plant, near here, Westchester Co.

N. Y., New York—July 20, by J. Miller, pres. Manhattan Boro, sewer on easterly side of Riverside Dr, from point about 141 ft. south of Plaza Lafayette (West 181st St.) to point about 1,000 ft. south of Plaza Lafayette, 4 ft. circular wooden barrel sewer under Contr. 2 for making

Sewers (Continued)

certain changes to outlet sewer in Roosevelt St. in connection with proposed improvement under Manhattan end of Brooklyn Bridge.

N. Y., Rye—July 26, by Village Trustees, Municipal Hall, c.i. main sewer. G. E. Hill, 45 7th Ave., New York, engr.; adv. this issue.

Pa., Annville—July 24, by Bd. Comrs. Annville Twp., rein.-con. box sewer. J. G. Nye, twp. clk.; adv. this issue.

Pa., Phila.—July 18, by F. H. Caven, dir. pub. wks., sewer in 12th St. from Thompson to Columbia Aves., 2,270 ft. 2 ft. 4 in. x 3 ft. 6 in. brick, 1,400 ft. 6 in. c.i. pipe, $30,000, Tulip St. from Cottman to Friendship Sts., 1,450 ft. 1 ft. 8 in. x 2 ft. 6 in. brick and 2,100 ft. 6 in. vitr. pipe, $25,000, McKean St. from Swanson to Delaware Aves. and Sonnerdale to Oxford Sts., 1,411 ft. 2 ft. 4 in. x 3 ft. 6 in. brick and 731 ft. 6 in. vitr. pipe, $28,000, Henley St. from Manhein to Hansberry Sts., and Marshall St. from Bristol to Cayuga Sts., 1,100 ft. 1 ft. 6 in. x 2 ft. 6 in. brick and 1,240 ft. 6 in. vitr. pipe, $25,000, Gerry St. from 66th Ave. to Eastburn St., 1,463 ft. 2 x 3 ft. brick, 1,920 ft. 6 in. vitr. pipe, $30,000, 4th St. from Chew to Grange Sts. and from Green to Nedro Sts., 1,281 ft. 3 ft. 6 in. brick and 819 ft. 6 in. vitr. pipe, $27,000, Delphine St. from 3rd to American Sts., and Eastburn St. from Wister to Gerry Sts., 1,250 ft. 3 ft. brick, 1,800 ft. 6 in. vitr. pipe, $26,000, branch sewer in American St. from Luzerne St. to Rising Sun Ave., 2,090 ft. 2 x 3 ft. brick, and 940 ft. 6 in. vitr. pipe, $25,000, American St. from Chew to point 303 ft. north, and Charles St. from Harrison to Wakeling Sts., 1,600 ft. 2 x 3 ft. brick and 877 ft. vitr. pipe, $15,000, 400 ft. main concrete sewer in Ognotz Ave. from Washington Lane to 79th St., $25,000, also test borings for sewers, $25,000.

Fla., Lake Worth—Aug. 1, sanitary sewerage system and septic tank. W. Randolph, city engr.; adv. this issue.

Fla., Miami—July 18, sanitary sewers. F. H. Wharton, city mgr.; adv. this issue.

Ky., Louisville—July 26, by Comrs. of Sewerage, constructing Bardstown Rd. Dist. Trunk Sewer. J. B. F. Breed, ch. engr.; adv. this issue.

O., Akron—See "Streets and Roads."

Ind., Indianapolis—July 31, by Bd. Sanitary Comrs., City Hall, constructing Sect. 2, Div. 3, and furnishing and erecting mechanical equipment for sewage disposal plant of Sanitary Dist.; adv. this issue.

Ia., Creston—July 17 for 4,656 lin.ft. 15 in. vitr. clay sanitary sewers. $25,000. P. K. DeVoe, city engr.

Minn., Barnum—See "Waterworks."

Minn., Brainerd—July 27, by city, 5,743 lin.ft. 36-54 in. trunk sewer in East Maple St. north to Mississippi River. $35,000. S. Swanson, clk. Noted July 6.

S. D., Avon—Aug. 2, for 11,020 ft. 8-18 in. sewer, and 6,000 ft. 4 in. c.i. watermain extensions. Dakota Eng. Co., Western Natl. Bank Bldg., Mitchell, engrs.

S. D., Gregory—Aug. 4, for 24,900 ft. 8-18 in. sewers. Dakota Eng. Co., Western Natl. Bank Bldg., Mitchell, engrs.

Mo., Kennett—See "Streets and Roads."

Okla., Oklahoma City—July 25, by C. F. Semmelbeck, city clk., constructing Lee Ave. Sewer Dist.; adv. this issue.

Cal., Redwood City—July 17, 2,611 lin.ft. 8 in., 11,098 lin.ft. 6 in. and 7,956 lin.ft. 4 in. vitr. pipe sewers in Oak Knoll Manor. C. L. Dimmitt, Redwood City, engr.

BIDS RECEIVED

Me., Portland—Opened bids June 26, 2,250 ft. 24-30 in. vitr. sewers in Forest Ave., from Monitor Contg. Co., Portland, $23,133; G. D'Ascanio, Portland, $23,837; Forgione & Romano Co., Fidelity Bldg., Portland, $24,442. Noted June 1.

O., Cleveland—See "Streets and Roads."

O., Akron—M. P. Tucker, dir. Pub. Serv. opened bids July 5, trunk sewer in Tallmadge Ave., incl. 10,900 ft. 8-24 in. vitr. clay pipe, and (a) 3,225 ft. 30-36 in. brick or (b) 3,225 ft. 30-36 in. segmental block pipe, from McAlonan Bros., 506 Woodland Ave., (a) $58,708 (b) $55,307; T. E. McShaffrey Constr. Co., 171 South Forge St., (a) $59,712 (b) $57,244; V. Olson Contg. Co., Herberich Bldg., (b) $68,900.

Mich., Detroit—Opened bids for (1) Clark Ave. Sewer, Sect. 4, (2) Harper Ave. Arm, Sect. 1, Connors Creek Sewer, (3) Harper Ave. extension of Ashland Ave. Sewer, (4) Piquette Ave. Arm of Bates St. Sewer, from G. R. Cooke, 1260 Penobscot Bldg., (1) $404,648; J. A. Mercier, 216 Hammond Bldg. (1) $443,200, (2) $93,827, (4) $59,655; Booth & Flinn, Brush and Frederick Sts., (1) $422,485; Jaynes & Affeld, 1208 Ford Bldg., (2) $99,864; R. D. Baker, 1631 Elmhurst Ave., (2) $99,774, (3) $35,703; J. Wagner, 2735 West Grand Blvd., (3) $37,792, (4) $63,376; W. Blanck & Co., 823 Ford Bldg., (3) $39,780, (4) $61,910.

Mich., Detroit—Opened bids for lateral sewers as follows: (1) 3517 (2) 3571 (3) 3585 (4) 3619 (5) 3660 (6) 3662 (7) 3665 (8) 3666 (9) 3667 (10) 3671 (11) 3674 (12) 3675 (13) 3676 from Hammen & Co., Mankato, Minn., (1) $14,300 (2) $14,290 (4) $31,250 (5) $13,600 (6) $8,230 (7) $3,950 (8) $12,170 (9) $5,250 (10) $9,870 (11) $11,730 (12) $19,680 (13) $17,300; Detroit Contg. Co., 823 Ford Bldg., (1) $13,900 Oakwood Constr. Co., 165 Fort Blvd., (1) $16,000 (2) $14,300 (3) $19,000 (4) $36,870 (5) $10,600 (10) $7,900 (11) $7,200 (12) $17,985; Western Constr. Co., 1208 Ford Bldg., (2) $14,715 (3) $19,433 (12) $20,208; J. Wagner, 2735 West Grand Blvd., (5) $16,000; J. Zuccola, Detroit, (6) $8,540 (9) $4,900; J. Gallat, Detroit, (6) $8,495; Cappello & Fatore, Detroit, (7) $3,280 (9) $4,990; M. Mucci, 1557 St. Joseph St., (7) $3,500; R. D. Baker, 1631 Elmhurst Ave., (13) $16,498; Detroit Drainage Constr. Co., 16 Campau Bldg., (3) $18,775 (13) $16,054.

Wash., Seattle—Bd. Pub. Wks. opened bids June 30, 2,410 ft. 10 in. rein.-con. and 6,609 ft. 8 in. clay pipe in 32nd Ave. S., et al., from Interstate Constr. Co., Seattle, $36,445; King Plumbing and Heating Co., 214 Columbia St., Seattle, $40,917; Romano & Rosello Bros., Seattle, $46,948.

CONTRACTS AWARDED

N. Y., Briarcliff Manor—Municipal Bd. sewerage system, Contr. A, to Orange Eng. Constr. Co., 106 South Essex Ave., Orange, N. J., $43,224; sewage disposal works, Contr. B, to Broadhurst Co., Court St., Hackensack, N. J., $29,096. Engrs. est. $32,808. Noted June 8.

N. C., Mt. Holly—See "Waterworks."

O., Dayton—Montgomery Co., sewers in Lakeside Dist. Sub-Dist. A, to L. A. Marshall, 601 Commercial Bldg., $31,522; Lakeside Dist. Sub-Dist. B, and Westwood Dist, Sub-Dist. B, to Crumley, Jones & Crumley, 2301 Concord St., Cincinnati, $55,193 and $64,669 respectively; Westwood Dist. Sub-Dist. A and Sub-Dist. C, to C. J. Wetzel, 54 Davies Bldg., $54,037 and $39,428 respectively; city main sewer and main outlet sewer, to J. I. Geiger, 409 Dayton Savings & Trust Bldg., $40,617 and $47,212 respectively. Noted June 22.

Neb., Lincoln—Sewage disposal plant in Sanitary Dist. 1, to Kent Eng. Co., 504 First Natl. Bank Bldg., Omaha, $10,000. Noted March 2.

Cal., San Pablo—San Pablo Sanitary Dist., constructing sewers, to Downer & Mero, 2234 Macdonald Ave., Richmond, $28,391. Noted July 6.

Ont., Guelph—Will build 6,000 ft. 24 in. concrete or vitr. tile domestic trunk sewer in Waterloo Ave. from Yorkshire Ave. to sewage works, by day labor. $45,000. F. McArthur, city engr.

Ont., Hamilton—S. H. Kent, city clk., Western Storm Overflow Sewer, Sect. 4 in Barton Ave. and John St., 640 ft. 4 ft. 6 in. diam. brick pipe and 3,100 ft. 6 ft. diam. concrete and brick pipe, to J. Maguire Constr. Co., 196 Spadina Rd., Toronto, $190,000.

Waste Disposal

PROPOSED WORK

O., Portsmouth—Plans to install garbage incinerator, 60 ton daily capacity. $21,000. Invites correspondence from manufacturers of incinerators. O. D. Tatje, 1150 4th St., comr. Health.

BIDS DESIRED

Ont., Chatham—July 31, by C. H. R. Fuller, city engr. and mgr., mixed garbage and refuse incinerator; adv. this issue.

Bridges

PROPOSED WORK

Ia., Ft. Dodge—Webster Co. making plans 590 ft. steel and concrete viaduct over North 15th St. $36,000. J. L. Parsons, Ft. Dodge, engr.

Missouri—State Hy. Dept., Jefferson City, plans one 20 ft. rein.-con. slab and one 36 ft. rein.-con. deck girder spans on State Aid Project 20.189, Morgan Co., $7,700; one 60 ft. pony truss, one 30 ft. and two 40 ft. I-Beam spans on Federal Aid Project 118, Sect. B, Stoddard Co., $18,300. B. H. Piepmeier, state highway engr.

Missouri—See "Streets and Roads."

Cal., Eureka—Humboldt Co. having plans prepared 3 steel bridges, each about 100 ft. long, concrete abutments, over Klamath River. H. J. Brunnier, Sharon Bldg., San Francisco, engr.

BIDS DESIRED

New York—See "Streets and Roads."

Delaware—See "Streets and Roads."

W. Va., Ripley—July 17, by Comrs. Jackson Co., constructing King Bridge 776; Carnahan Bridge 776; Angerona Bridge 778; Cottageville Bridge 779. $25,000. H. E. Snyder, Parkersburg, engr.

North Carolina—July 25, by State Hy. Comn., Raleigh, bridges on State Project 484, Wake Co., 915 cu.yd. concrete, 122,000 lb. reinforcing, etc., $27,000; on State Project 702 A, Alleghany Co., 796 cu.yd. concrete, 137,950 lb. reinforcing, 1,780 lb. plates and bolts, 200 sq.yd. asphalt wearing surface, $26,500; State Project 952 A, Jackson Co., 1,270 cu.yd. concrete, 116,500 lb. reinforcing, 300 sq.yd. asphaltic wearing surface, $37,000; bridges and culverts on Project 569, Moore Co., 816 cu.yd. concrete, 11,590 lb. reinforcing, 2,160 lb. plates and bolts, 2,280 ft. untreated timber piles, 264 sq.yd. asphalt wearing surface, $27,000; State Project 693, Macon Co., 849 cu.yd. concrete, 102,000 lb. reinforcing, 1,020 lb. plates and bolts, $25,000. C. M. Upham, state highway engr.

South Carolina—July 26, by State Hy. Dept., Columbia, approaches to Wateree River Bridge, 24,257 cu.yd. clearing, 13,464 lin.ft ditching, 10,344 cu.yd. gravel surface, 3,000 lin.ft. treated piles, 35,800 ft. treated lumber, etc.

Tennessee—July 28, by State Hy. Dept., Nashville, rein.-con. bridge with 287 ft. span, over Rockey River on Warren-Van Burne Co. line, Federal Aid Project 79, incl. 973.25 cu.yd. concrete, 12,831 lb. deformed steel bars, 575 sq.yd. bituminous macadam surface course. D. Q. McComb, Nashville, ch. engr.

O., Athens—See "Streets and Roads."

O., Cleveland—July 29, by Comrs. Cuyahoga Co. concrete arch bridge on Highland Rd., 660 cu.yd. excav., 2,900 cu.yd. embankment, 845 cu.yd. concrete and 61,000 lb. reinforcing. $25,870. F. J. Lander, Court House, engr.

Minn., Olivia—See "Excavation and Dredging."

Minnesota—See "Streets and Roads."

Missouri—July 18, by State Hy. Dept. at div. office Bowling Green, bridge over Peno Creek to have one 80 ft. steel and five 20 ft. rein.-con. slab spans, also grading and graveling approaches on road from Peno northward, Federal Aid Project 188, Pike Co. B. H. Piepmeier, Jefferson City, state highway engr.

California—July 24, by State Hy. Comn., Sacramento, constructing bridge over Bear River, 7 mi. north of Auburn, Placer and Nevada Counties, two 100 ft. steel truss spans. A. B. Fletcher, state highway engr.

New Zealand, Wellington—Aug. 29, by Secretary Dept. Pub. Wks., plate girder spans for Marretu section bridges, North Auckland Main Trunk Ry., and for Waikokoyne section bridges for Wiaro-Waikokoyne Ry. Copies of specifications at Dept. of Trades & Commerce, Ottawa, Ont.

Siam—Oct. 1, by Siam State Rys., Bangkok, superstructures of steel railway bridges, 35 spans, total length 1,485 meters, comprising plate girder, plate girder deck, lattice girder through and special plate girder deck spans. Specifications can be seen in the Iron & Steel Division of Bureau of Foreign and Domestic Commerce, Wash., D. C. (Refer to file No. 58674), also at Bureau's Dist. Office, 734 Customhouse, New York City, and may be obtained from C. P. Sandberg, 143 Liberty St., New York City.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids July 5, masonry piers for bridge over Hook Creek Canal at Rockaway Blvd., from P. T. Cox Contg. Co., 154 Nassau St., New York, $38,880; M. Paino & Co., $44,495.

Pa., Freeport—Bd. State Comrs., Harrisburg, opened bids reconstructing bridge connecting Freeport and Garvers Ferry, from Independent Bridge Co., May Bldg., Pittsburgh, $109,400; C. M. Nield Constr. Co., Oliver Bldg., Pittsburgh, $125,800; W. S. Rae, Oliver Bldg., Pittsburgh, $171,700.

Bridges (Continued)

North Carolina—State Hy. Dept., Raleigh, rein.-con bridges and culverts on State Project 800, Avery Co., from Olliver & Costello Bros., Knoxville, Tenn., $31,987, J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., $32,883, O'Brien Constr. Co., Balsam, $33,490; State Project 145, Hertford Co., from Luck Co., Sylva, $37,565, O'Brien Constr. Co., Balsam, $37,997, Atlantic Bridge Co., Roanoke, Va., $38,112; State Projects 386 and 387, Robeson Counties, from J. O. Heyworth, Harvester Bldg., Chicago, $36,601, A. J. Wardrep, 1717 Highland Ave., Knoxville, Tenn., $41,295, Cornell-Young Co., 4th Natl. Bank Bldg., Macon, Ga., $43,041. Noted June 8.

Missouri—State Hy. Dept. at div. office Ironton, opened bids May 26, three 40 ft. rein.-con. arch, four 16 ft. and one 20 ft. rein.-con. slab and two 24 ft. rein.-con. deck girder spans, on Federal Aid Project 107 A, Iron Co., from M. E. Gillioz, Monett, $19,890; C. Gove, St. Louis, $20,653; St. Louis Bridge & Supply Co., Frisco Bldg., St. Louis, $21,360. Noted May 18.

Tex., Colorado—Mitchell Co. bridge across Colorado River, 10,470 cu.yd. concrete, 2,202 lin.ft. concrete piling, 4,209 cu. yd. borrow excav., 383 cu.yd. gravel surfacing, 113,678 lb. reinforcing and 175,000 lb. structural steel, from Brown-Abbott Co., Loraine, $44,327; Austin Bros. Bridge Co., Coombs St., Dallas, $45,484; Illinois Steel Bridge Co., Box 697, Austin $55,057.

CONTRACTS AWARDED

Mass., Allston (Boston P. O.)—Bridge Comrs., 145 ft. through truss concrete and steel bridge, 80 ft., solid concrete floor, wood block pavement, concrete foundation, over Boston & Albany R.R., on Cambridge St., to Boston Bridge Works Inc., 47 Winter St., Boston, $119,679. Noted Dec. 30.

Mass., Boston—Metropolitan Dist. Comn., 1 Ashburton Pl., 790 ft. stone and concrete bridge, 70 ft., over Neponset River, to Crandall Eng. Co., East Boston, $599,150. Noted June 15.

Conn., New Haven — Director of Pub. Wks., 800 ft. concrete and steel bridge, 22 ft., over Quinnipiac River, known at Tomlinson Bridge, general masonry, sandstone piers, asphalt pavement, to C. W. Blakeslee & Sons, Inc., 58 Waverly St., $475,143; steel work, to Phoenix Bridge Co., Phoenixville, Pa., $212,866; electrical work, to New Haven Electric Co., 294 Elm St., New Haven, $22,816. Pile and timber temporary bridge, to C. W. Blakeslee & Sons, Inc., 58 Waverly St., $43,875. Noted June 22.

N. Y., Devils Hole (Niagara Falls, P. O.)—New York Central R.R., Grand Central Terminal, New York, 120 ft. concrete bridge, 25 ft., over tracks of above railroad, here, to Empire Eng. Co., Tonawanda. Engrs. est. $38,000. Noted May 11.

New Jersey—State Hy. Dept., Trenton, constructing bridge M. P. 25.7 over north branch of Raritan River, Route 16, in municipalities of Bernard and Bedminster, Somerset Co., to Engineering Constr. Corp., Commonwealth Trust Bldg., Phila., $27,393. Noted June 8.

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 200, Cateret Co., from Batson-Cook Co., West Point, Ga., $27,005; Luck Co., Sylva, $30,668; Porter & Boyd, Realty Bldg., Charlotte, $34,577. Noted June 15.

Ala., Eldredge—St. Louis & San Francisco R.R., Frisco Bldg., St. Louis, Mo., two 12 ft. concrete arches and 2 concrete boxes for filling trestles, 1,800 cu.yd. plain and 400 cu.yd. rein.-con., to Reid & Lowe, Brown-Marx Bldg., Birmingham, $25,000.

Nebraska—State Hy. Dept., Lincoln, constructing bridge on Hebron-Fairbury Rd., Project 118 B, Jefferson Co., and bridge on Curtis Maywood Rd., Project 176, Frontier Co., to Standard Bridge Co., City Natl. Bank Bldg., Omaha, $22,844 and $3,016 respectively; 6 bridges on Central City-Eldorado Rd., Project 156 A, Hamilton Co., and 3 bridges on Bennett-Adams Rd., Project 175 B, Lancaster Co., to Pioneer Constr. Co., Railway Exch. Bldg., Kansas City, Mo., $21,068 and $14,283 respectively; 3 bridges on Central City-Eldorado Rd., Project 156 B, Hamilton Co., and 2 bridges on Harvard Eldorado Rd., Project 182, Clay Co., to Diamond Eng. Co., Grand Island, $5,757 and $4,769 respectively; bridge on O'Neil-Butte Rd., Project 14 B, Holt and Boyd Counties, 2 bridges on Smiley Canyon Rd., Project 102 A, Sioux Co., and 3 bridges on Elwood Stockville Rd., Project 184, Gosper Co., to Western Bridge and Constr. Co., 748 Bee Bldg., Omaha, $37,139, $17,848 and $12,239 respectively; bridge on Burwell Deverre Rd., Project 34 A, Garfield Co., to Southern Kansas Bridge & Constr. Co., Wichita, Kan., with steel piling, $16,199; 4 bridges on Shelby-Platte River Rd., Project 86, Polk and Butler Counties, to Polk Co. Bd., Osceola, $15,833; bridge on Minden-Newark Rd., Project 196, Kearney Co., to Allied Contractors, Inc., 403 Bee Bldg., Omaha, $6,112. Noted June 29.

Ont., Toronto—C. A. Maguire, mayor, renoving existing bridge and constructing 3 span arch bridge with concrete piers, abutments, 759 ft. long, 66 ft. wide, over Don River on Gerrard St., to J. E. Russell Constr. Co., Harbor Bldg., $721,520. Noted April 27.

Dams

PROPOSED WORK

Conn., West Cornwall—Connecticut Light and Power Co., 107-111 West Main St., Waterbury, plans large dam across Housatonic River between here and Limerock; also power station. Private plans.

BIDS DESIRED

Wis., Tomahawk — Wisconsin Valley Impvt. Co., 1st Natl. Bank Bldg., Wausau, taking bids rein.-con. and steel reservoir dam, incl. gravel and earth embankment, protected by sheet piling with gate works of concrete. $100,000. W. E. Brooks, mgr. Private plans. Noted June 22.

S. D., Murdo—See "Waterworks."

CONTRACTS AWARDED

Ariz., Prescott—For gravity type dam, 65 ft. high, 800 cu. yd. rock excav., 9,600 cu.yd. cyclopean masonry, to S. P. Gillis Eng. Co., P. O. Box 454, Phoenix, $79,784.

Railways

CONTRACTS AWARDED

Ohio—Northern Ohio Traction & Light Corp., North Main St., Akron, will lay tracks over new North Ave. viaduct, and pave between car tracks, by day labor. $325,000. A. C. Blinn, genl. mgr.

Ohio—Southern Agricultural Chemical Corp., 61 Bway., New York, 60,000 cu.yd. grading and 1½ mi. railroad siding, single track, along Cleveland, Cincinnati, Chicago & St. Louis R. R., in Cincinnati, to H. L. Carr Co., Frederick Bldg., Cleveland, $65,000.

Arizona—Magma Copper Co., Phoenix, 34 mi. standard guage railroad between Superior and Magma Junction, to Twohy Bros. Constr. Co., 318 North Central Ave., Phoenix.

Excavation and Dredging

PROPOSED WORK

Ia., Oskaloosa—Mahaska Co. lets contract in October or November for 6.4 mi. open ditch in D. D. 6, 480,000 cu.yd. excav. R. W. Varley, co. aud.

Ore., Eagle Point—Eagle Point Irrigation Dist. having plans prepared irrigation works to supply 8,000 acres, incl. diversion dam in Butte Creek, 18 mi. canal, 1 mi. pipe siphon, etc. $400,000. Engineer not announced.

Ore., Grants Pass—Grants Pass Irrigation Dist. plans 5 mi. ditch and enlarging 1 mi. of old ditch, 167,000 cu.yd. earth and 13,000 cu.yd. rock excav. $100,000. J. H. Fertig, Grants Pass, engr.

Ont., Port Frank—G. A. McCubbin, engr., Chatham, takes bids end of July, drainage system for Bosanquet, Stephen, Williams and McGillivary Twps. $75,000.

BIDS DESIRED

Fla., Ft. Lauderdale—Aug. 15, by Bd. Comrs. Broward Cd., constructing inlet from New River Sound to Atlantic Ocean, near here. G. B. Hills Co., Jacksonville, engrs.; adv. this issue.

La., Lawtell—July 25, by C. N. Bertrand, pres. Bd. Comrs. St. Landry Parish, Bank of Lawtell, dredging 600,000 cu.yd. and building gravity drainage system. A. Tate, Opelousas, engr.

O., Wooster—Aug. 10, at office of C. F. Schopf, secy. Joint Bd. Comrs. Wayne and Holmes Counties, Court House, Wooster, draining and dredging Killbuck Creek; adv. this issue.

Ill., Beardstown—July 18, by Comrs. Coal Creek Drainage and Levee Dist., Schuyler Co., at office Glass & Bottenberg, Rushville, levee reinforcement and ditch excavation. G. C. Lowe, engr.; adv. this issue.

Minn., Olivia—July 26, by A. O. Schmidt, aud. Renville Co., Ditch 92, 92,265 cu.yd. excav., 6 timber bridges, 149,500 lin.ft. 5-36 in. tile. $35,000.

CONTRACTS AWARDED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, dredging Wallabout and Gowanus Canals, to W. E. Potter, 49 Hudson St., Jersey City, N. J., $13,378 and $9,490 respectively. Noted June 29.

Ala., Fayette—Bd. Drainage Comrs., 42 mi. drainage ditches, Fayette and Lamar Co. D. D. 1, to D. W. Robins, Tupelo, Miss., $0.085 per cu.yd. Noted April 27.

Ia., Cresco—Howard Co. draining 13 mi. Primary Rd. Project 103, to H. Paulsen, Havelock, 103,070 ft. 6 in. tile at $0.109, 22,255 ft. 8 in. $0.152, 2,500 ft. 10 in $0.24 and 500 ft. 12 in. $0.31. Noted May 11 under Streets and Roads.

Streets and Roads

PROPOSED WORK

N. Y., Bath—Plans $25,000 bond issue to pave Buel, William, Pine and various other streets. Address Bd. Village Trustees.

N. Y., Buffalo—Erie Co. preparing plans paving 3,636 ft. Bailey Ave. south of Main st., 100 ft. wide, concrete or asphalt.

N. Y., Jamestown—Plans repaving Harrison St. between Winsor and South Main Sts., Lincoln St. between 6th and 8th Sts., 11th St. between Main and Washington Sts. and Fulton St. between 6th and 8th Sts., vitr. brick. To exceed $35,000. L. Bergman, city engr.

N. Y., Lockport—Niagara Co. plans constructing 2 mi. Lake Rd. from Olcott west to Wilson town line, concrete. $25,000. T. Brennan, co. engr.

N. Y., Lockport—Niagara Co. soon takes bids resurfacing Shawnee Rd., concrete. $53,174. T. Brennan, Lockport, co. engr.

Pa., Erie—Plans paving Elmwood Ave. $44,500, 25th St. $21,000, both asphalt. F. G. Lynch, city engr.

Va., Norfolk—City passed ordinance by which it agrees to pay interest on loan which business men of Norfolk will make to State for completion of certain highway work in vicinity of Norfolk, loan amounts to $460,000 and provides for construction of following highways: Ridge Route, completion of link in Norfolk-Petersburg-Richmond line to North Carolina line, $260,000; Route 27 (State project) from South Norfolk to connect with Elizabeth City, N. C. highway, $100,000; Peninsula Route, section of road from Old Point to Richmond, near Lee Hall, $100,000. C. E. Ashburner, city mgr.

N. C., Charlotte—Mecklenburg Co. takes bids latter part of July hard surfacing 7 mi. York Rd. $180,000. L. Ross, Charlotte, engr.

N. C., Wilmington—Plans paving various streets, brick and asphalt. $400,000-$500,000. Carolina Eng. Co., Wilmington, engrs.

S. C., Camden—Takes bids latter part of July, extending various streets. $200,000. Carolina Eng. Co., Wilmington, N. C., engrs.

Ala., Birmingham—Jefferson Co. and City plan paving with asphalt on concrete base, combined concrete curb and gutter, 1½ mi. South Bessemer connection, 20-26 ft., $56,000, 2½ mi. from Fairfield to Fairview, 18-24 ft., $68,000, 1½ mi. Vanderbilt Rd., 20-26 ft., $63,000, 3 mi. Gate City-Irondale Rd., 20-26 ft., $108,000; paving with asphalt on concrete 5 mi. Birmingham-Pratt City Rd., $110,000. C. A. Rogers, co. engr. A. J. Hawkins, city engr.

Ohio—Dept. Highways and Dept. Pub. Wks., Columbus, cancelled all bids which were to be opened June 30, grading, bridging and paving roads in following counties:

Clark Co., Sect. "B" Dayton-Longview Rd., 1.545 miles, rein.-con., bituminous macadam, asphalt or tar.

Columbiana Co., Sect. "A-1" Lisbon-Canton Southern Rd., 3.922 mi., brick or bituminous macadam.

Pickaway Co., Sect. "F-2" Columbus-Washington C. H. Rd., 0.8 mi., bituminous macadam.

Tuscarawas Co., Sect. "A" Canton-Canal Dover Rd., 3 mi., Kentucky rock asphalt, rein.-con. or bituminous macadam.

Tuscarawas Co., Sect. "B" Canton-Canal Dover Rd., 2.299 mi., monolithic brick, rein.-con., or Kentucky rock asphalt.

Streets and Roads (Continued)

Tuscarawas Co., Sect. "E" Canton-Canal Dover Rd., 2.093 mi., Kentucky rock asphalt or brick.

Tuscarawas Co., Sect. "P-2" Newcomerstown-Uhrichsville Rd., 1.338 mi., monolithic brick, rein.-con., or Kentucky rock asphalt.

Pickaway Co., Sect. "F-2" Columbus-Washington C. H. Rd., 0.19 mi., constructing steel bridge and concrete culvert. Noted June 22.

Ohio—Dept. Highways and Pub. Wks., Columbus, received no bids June 30, grading, bridging and paving 1.42 mi., Sect. "K" Columbus-Millersburg Rd., Knox and Licking Counties, also 1.80 mi. Sect. "C" McConnelsville-Zanesville Rd., Morgan Co., both rein.-con. Noted June 22.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids opened June 23, grading, bridging and paving roads in following counties:

Huron Co., Sect. "E" Barberton-Greenwich Rd., 4.124 miles, rein.-con.

Huron Co., Sect. "Greenwich" Barberton-Greenwich Rd., 0.1619 mi., rein.-con.

Huron Co., Sect. "S" Norwalk-Mansfield, Rd., 2.504 mi., rein.-con.

Putnam Co., Sect. "O" Lima-Ottawa Rd., 0.58 mi., Kentucky rock asphalt or rein.con.

Putnam Co., Sect. "Columbus Grove" Lima-Ottawa Rd., 1.21 mi., Kentucky rock asphalt or rein.-con. Noted June 29.

O., Lakewood (Cleveland P. O.)—Will sell $14,270 bonds July 17 paving Archdale Ave., $16,160 Baxterly Ave., $17,470 Elbur Ave., $12,350 Overbrook Ave., $38,295 Brown Rd., $15,246 Onondaga Ave., $36,486 St. Charles Ave. E. M. Hutchins, deputy dir. finance.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 2 mi. State Trunk Line Rd. 18-19, Sect. B, Cheboygan Co.; grading and surfacing 1 mi. State Trunk Line Rd. 31-12, Sect. B, Huron Co. L. H. Belknap, ch. engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 4¾ mi. Assessment Dist. Rd. 346, Ionia and Barry Counties. L. H. Belknap, ch. engr.

Mich., Detroit—Having plans prepared paving Golden Gate Ave. from Woodward to Charleston Sts., $19,780, Lawton Ave. from Blaine to Carter Sts., $3,620, 12th St. from Pilgrim to Puritan Aves., $13,950, Walbridge Ave. from Baldwin to Van Dyke Aves., $5,350, Burlingame Ave. from Nardin to Belleterre Aves., $7,870, Lenox Ave. from point 880 ft. north of Charlevoix to Mack Aves., $13,550, 3½ in. sheet asphalt on 8 in. concrete, also 3 alleys with one course concrete, $16,225. J. W. Reid, city engr.

Wis., Appleton—Plans improving College and Pierce Aves., Lawe, Franklin, Mead, Eldorado, Hancock, Atlantic, Bateman, Ida, Richmond, Appleton, John and Superior Sts. O. F. Weissgerber, City Hall, engr.

Wis., Walworth—Making plans paving various streets, 25 ft., asphalt or concrete, also curbing and guttering same. $26,000 bond voted. J. Blaine, clk. Engineer not selected.

Ia., Oskaloosa—Plans paving 3 mi. various streets. $90,000. H. Hawkins, city engr.

Minnesota—State Hy. Dept. had plans prepared grading 17 mi. Minnesota Trunk Highway 1 from Owatonna to Faribault, Steele and Rice Counties, $100,000; 13 mi. Trunk Highway 2, Clay Co., also 2 bridges, $90,700; 5 mi. Trunk Highway 45 from Stillwater to Lake Elmo, Washington Co., $30,000; concrete paving 1 mi. Trunk Highway 1, Washington Co., $50,000; gravel surfacing 17 mi. Trunk Highway 28 from Morris to Johnson, Stevens Co., $25,900. State Hy. Dept., 1246 University Ave., St Paul, engrs.

Minn., St. Paul—Plans paving Marshall Ave. from Levington to Snelling Aves. $30,000. O. Claussen, city engr.

Kan., Enterprise—Had plans prepared paving 18 blocks asphaltic concrete, asphalt and brick. Shockley Eng. Co., Graphic Arts Bldg., Kansas City, Mo., engrs.

Kan., Ft. Scott—Bourbon Co. plans surfacing 1¾ mi. Garland Brench Rd., 16 ft., 16,000 sq.yd. bituminous macadam. B. Boyle, Ft. Scott, engr.

Wyoming—State Hy. Dept., Cheyenne, opens bids about Aug. 1, grading, surfacing and building structures on 7.973 mi. Yellowstone Highway, Powder River to Waltman, Federal Aid Project 128, 24 ft., Natrona Co., 79,500 cu.yd. earth excav., 150 cu.yd. loose rock and 100 cu.yd. solid rock excav., 200 cu.yd. concrete, 15,000 lb. deformed steel bars, etc. $40,000. Z. E. Sevison, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans ¼ mi. road from Peno northward, Federal Aid Project 188, Pike Co., 9,263 cu. yd. earth excav., 2,056 sq. yd. gravel surfacing, one 80 ft. steel span with five 20 ft. rein.-con. slab span approaches over Peno Creek. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans 9.943 mi. road from Cairo to Poplar Bluff, Federal Aid Project 118, Sect. B, Stoddard Co., 24,670 cu.yd. earth excav., 4,798 cu.yd. borrow, 164.4 cu.yd. concrete masonry, 22,546 sq.yd. gravel surfacing, etc.; 4.256 mi. road from Cairo to Poplar Bluff, Federal Aid Project 179, Stoddard Co., 22,349 lin.ft. grading, 39,732 sq.yd. gravel surfacing, etc.; 4.694 mi. road from Higginsville eastward and westward, State Aid Project 20.164, Lafayette Co., 38,042 cu.yd. earth and 600 cu.yd. rock excav., 288.7 cu.yd. concrete masonry, etc. B. H. Piepmeier, state highway engr.

Mo., Gallatin—Plans paving 9 blocks, asphaltic concrete. $40,000. Shockley Eng. Co., Graphic Arts Bldg., Kansas City, engrs.

Tex., Brownsville—Cameron Co. making plans grading and paving with 2 course concrete 10.47 mi. State Highway 12 between here and San Benito, incl., 110,700 sq.yd. concrete. $406,866. W. O. Washington, co. engr.

Tex., Cleburne—Johnson Co. plans surfacing 23 mi. Meridian Highway from Burleson south through Cleburne. $225,000 bonds voted, and $200,000 alloted by State Highway Comn. for project. J. G. Lott, Alvarado, engr. in charge. Noted June 1.

Tex., Coleman—Coleman Co. making plans grading, gravel surfacing, etc., 10.58 mi. State Highway 7-A, Federal Aid Project 303, incl. 44.9 acres clearing and grubbing, 49,678 cu.yd. borrow, 21,670 cu.yd. roadway, 4,007 cu.yd. loose and 4,295 cu.yd. solid rock excav., 1,685 cu.yd. concrete, 187,050 lb. reinforcing. $87,477. W. E. Dickerson, co. engr.

Tex., Denison—July 26, to vote on $65,000 bond issue for additional street paving. D. C. Lipscomb, city engr.

Tex., Houston—Harris Co. making plans grading, surfacing with crushed rock, etc., 3.33 mi. State Highway 2, incl. 8.885 cu.yd. excav., 18,284 gal. asphalt, 738 cu.yd. cover material, 4,861 cu.yd. crushed rock, 2,187 cu.yd. shell. $44,705. Howe & Wise, 211 First Natl. Bank Bldg., engrs.

Tex., Paris—Lamar Co. making plans gravel surfacing 9.89 mi. State Highway 19 from county line south, incl., 10,000 cu.yd. borrow, 15,218 cu.yd. gravel surfacing. $63,505. W. M. Fooshee, co. engr.

Tex., Tyler—Smith Co. making plans grading, surfacing, etc., 14.73 mi. State Highway 37, Federal Aid Project 284, incl., 691.9 cu.yd. concrete, 58,149 sq.yd. bituminous macadam, 37,121 sq.yd. concrete pavement, 52,152 lb. reinforcing, 10,296 cu.yd. imported gravel, 11,949 cu.yd. local gravel, 5,148 cu.yd. clay binder, to be furnished by county. $252,000. D. K. Caldwell, co. engr.

Okla., Madill—Marshall Co. authorized $350,000 bond issue for 65 mi. hardsurfaced highways. Engineer not announced.

Wash., Tacoma—Plans resurfacing 17 blocks Bway. and St. Helens Ave. from South 17th to Division Ave., bitulithic. J. C. Manley, city engr.

Wash., Wenatchee—Chelan Co. soon takes bids grading 4 mi. Blewett Pass Highway. $100,000. J. Duff, Wenatchee, engr.

Cal., Bakersfield—Rejected bids paving Oak St. Specifications will be revised for new type of pavement and new bids asked. W. D. Clarke, city engr. Noted June 8.

Cal., Fresno—Takes bids about July 24, improving Bremer Ave. between Forthcamp and San Pablo Aves., 50,300 sq.ft. grading, 45,330 sq.ft. asphalt pavement, 4,745 sq.ft. concrete gutters, etc. W. Stranahan, city engr.

Cal., Lindsay—Having plans prepared improving Lindsay Ave., Harvard and Orange Sts., et al., 10,250 cu.yd. grading,

ROAD WORK—CLEARWATER, FLA.

Bids were opened by Comrs. Pinellas Co., June 14, for constructing Rd. No. 1, from (A) J. G. Yeates, Port Tampa; (B) Lasley Bros. & Harvey, Chattanooga, Tenn.; Road No. 2, (A) J. G. Yeates; (B) W. H. Kendrick, Tampa; (C) Mickler & McLeod, Tampa; (D) Lasley Bros. & Harvey. The unit bids were as follows:

	A	B
52 acres clearing and grubbing	$60.00	$75.00
121,600 cu.yd. regular excavation	.40	.45
5,500 cu.yd. dredged excavation	.50	.75
5,300 cu.yd. rock shoulder excavation	.65	.75
250,000 sq.yd. 5 in. compacted rock base	.85	1.05
263,500 lin.ft. concrete curb 6x15 in.	.47	.53
156,500 sq.yd. plain wire cut brick 3-4-8½ with asphalt filler	2.52	2.55
106,600 sq.yd. taking up, cleaning and relaying old brick with asphalt filler	.69	.73
Extended totals	$866,155	$950,162

	A	B	C	D
16 acres clearing and grubbing	$60.00	$60.00	$57.00	$75.00
60,500 cu.yd. regular excavation	.40	.45	.38	.45
5,000 cu.yd. dredged excavation	.50	.50	.75	.75
3,333 cu.yd. rock shoulder excavation	.65	.65	.80	.75
114,000 sq.yd. 5 in. compacted rock base	.85	.88	.93	1.05
121,100 lin.ft. concrete curb, 6x15 in.	.47	.48	.50	.53
85,755 sq.yd. plain wire cut brick, 3-4-8½ with asphalt filler	2.56	2.55	2.56	2.55
30,000 sq.yd. taking up, cleaning and relaying old brick with asphalt filler	.69	.68	.68	.73
Extended totals	$422,966	$432,925	$439,381	$461,683

ROAD WORK—CALIFORNIA

Following are lowest bids opened by Bureau Pub. Rds, 881 Mills Bldg., San Francisco, June 22, for grading and building structures on 10.41 mi. Big Bear Valley Rd., Los Angeles National Forest. (A) Utah Constr. Co., Phelan Bldg.; (B) Johnson Contracing Co., Portland, Ore.; (C) C. H. & A. W. Gorrill, Oakland. The unit bids were as follows:

	A	B	C
Clearing (lump sum)	$12,370.00	$5,500.00	$12,164.00
325,000 cu.yd. excavation	.615	.68	.795
4,000 cu.yd. overhaul	.04	.10	.05
118 cu.yd. Class A concrete	38.50	60.00	45.00
21,000 lb. reinforcing steel	.08	.12	.08
530 cu.yd. cement rubble masonry	10.30	17.50	10.00
170 cu.yd. dry rubble masonry	7.65	8.50	6.00
4,700 lin.ft. 12 in. concrete pipe	3.10	4.45	3.00
690 lin.ft. 18 in. concrete pipe	4.00	7.00	3.00
260 lin.ft. 24 in. concrete pipe	5.90	10.00	4.00
4,700 lin.ft. 12 in. corrugated pipe (alternative)	1.75	1.00	1.25
380 lin.ft. 15 in. corrugated metal pipe (alternative)	2.00	1.50	1.50
310 ft. 18 in. corrugated metal pipe	2.15	2.00	2.00
260 lin.ft. 24 in. corrugated metal pipe (alternative)	2.40	2.75	2.50
630 cu.yd. hand placed rock fill	3.30	3.50	5.00
140 cu.yd. Class C concrete as alternative for cement rubble masonry	38.50	46.00	40.00
90 cu.yd. Class C concrete as alternative for dry rubble masonry	38.50	46.00	40.00
Extended totals using concrete pipe	$246,388	$273,382	$304,417
Extended totals using corrugated pipe	237,799	255,782	294,922

Streets and Roads (Continued)

507,000 sq.ft. 1½ in. warrenite on 3½ in. bituminous, 46,500 sq.ft. concrete gutter, 5,110 lin.ft. concrete curb, 1,130 lin.ft. corrugated and concrete culverts, 575 sq.ft. concrete walks. H. Watts, city engr.

Cal., Marysville—Yuba Co. had plans prepared grading and shaping road bed, 7½ mi. long, 40,000 cu.yd. excav. L. B. Crook, Marysville, engr.

Cal., Richmond—Had plans prepared 4,100 cu.yd. grading, 33,000 sq.ft. 6-in. asphaltic concrete pavement, 900 lin.ft. concrete curbs and gutters, 2,000 sq.ft. concrete walks, 150 cu.yd. concrete walls and underpinning, 700 lin.ft. 10 in. vitr. and 338 lin.ft. 8-10 in. corrugated pipe, in connection with city subway. H. D. Chapman, city engr.

Cal., Santa Cruz—Received no bids June 26, 341,611 sq.ft. grading, 192,649 sq.ft. 5 in. concrete pavement, 2,730 ft. detached concrete curbs, 4,047 standard concrete sidewalk curb, 4,800 sq.ft. 4 in. concrete sidewalks, 4,526 ft. 10-18 in. drain pipe, etc. J. K. James, city engr. Noted June 8.

Cal., Yuba City—Takes bids about Aug. 7, concrete paving 306 ft. Hawthorne St. and 310 ft. Linden St., both 42 ft. wide, 4 in. thick; 838 ft. Orange St., 367 ft. Walnut St., 367 ft. Olive St. and 367 ft. Chestnut St., all 44 ft. wide, 4 in. thick; 2,769 ft. Cooper Ave., 18 ft. wide, 1,186 ft. Cooper Ave., 42 ft. wide, 2,422 ft. Bridge St., 50 ft. wide, all 5 in. thick. E. Von Geldern, Yuba City, engr.

Que., Montreal—Plans paving 2,250 ft. St. Catherine St. from Harbor to Marlborough Sts., 65 ft., $45,540; 1,687 ft. Marlowe St., 60 ft., $35,023; 2,062 ft. Monk Blvd., from Jolicoeur to Allard Sts., 50 ft., $62,743; 1,125 ft. De Chateaubriand Ave., from Roy to Duluth Sts., 60 ft., $11,823, all asphalt. E. Blanchard, Rd. Dept. engr.

Ont., Ingersoll—Having plans prepared and takes bids about July 24, concrete pavement on Charles and Bell Sts. $92,000. Prices wanted on materials. R. B. Hutt, town engr.

Ont., Ottawa—Had plans prepared resurfacing with asphalt, 7,500 sq.yd. Carter St. from Lisgar to Argyle Sts. $15,500. 2,000 sq. yd. Somerset St. from Metcalfe to O'Connor Sts. $4,400. 2,400 sq.yd. Lyon St. from Gladstone to Catharine Sts., $4,400, Lyon St. from Chamberlain to Pawell Sts. $5,000. A. F. Macallum, city engr.

BIDS DESIRED

Mass., North Adams—July 20, by J. L. Temple, comr. Pub. Wks., City Hall, improving State St.; adv. this issue.

Mass., Westfield—July 26, by Bd. Pub. Wks., City Hall, paving Franklin St., rein.-con. O. E. Parks, supt.; adv. this issue.

New York—July 21, by H. S. Sisson, comr. State Hy. Dept., Albany, improving highways in Allegany, Fulton, Oneida, St. Lawrence, Steuben and Wayne Counties, also 895 ft. steel bridge, 20 ft., in Cattaraugus Co. J. C. Finch, secy.; adv. this issue.

N. J., Trenton—July 18, by Mercer Co. constructing White Horse-Yardville Rd., 7,000 cu.yd. excav. and 23,200 sq.yd. concrete. H. F. Harris, Court House, engr. Noted June 15.

N. J., Westwood—July 18, by Mayor and Boro Council, grading, curbing and paving Center Ave. from Jefferson to Westwood Aves. and 3rd Ave. from Mill St. to Washington Ave. W. G. Clark, Hillside Ave., Tenafly, consult. engr.; adv. this issue.

Pa., Ebensburg—July 23, by Supervs. East Taylor Twp., c/o H. T. Hones, controller Cambria Co., (Ebensburg), paving 4,000 ft. Park Hill Rd., East Taylor Twp., vitr. paving brick on concrete, alternate bids on 280,000 No. 1 repressed brick, $40,000; also by Supervs. Adams Twp., c/o H. T. Hones, controller Cambria Co., (Ebensburg), 18,600 ft. road in Adams Twp. between Dunlo and Salix, vitr. brick on concrete, alternate bids on 1,330,000 No. 1 repressed paving brick, $120,000. O. P. Thomas, Park Bldg., Johnstown, engr.

Pa., Leechburg—July 17, grading, curbing and paving Linden Ave. and portions of 1st St., Center and Floral Aves. C. A. Ehrenfeld, boro, engr.; adv. this issue.

Pa., Oil City—Aug. 1, at office City Controller, resurfacing various streets and grading and paving 2 alleys. B. B. Weber, city engr.; adv. this issue.

Pa., Washington—July 31, by Town Council, 18,000 sq.yd. brick pavement, (brick furnished by boro.), and resurfacing 5,000 sq.yd. with bituminous pavement. J. F. Curran, pres.; adv. this issue.

Delaware—July 26, by State Hy. Dept., Dover, highway and Smyrna Bridges, Contr. 25-A; 1.45 mi. limestone highway, Contr. CN-5; adv. this issue.

Maryland—July 25, by State Rds. Comn., Baltimore, building 8 sections of highways in counties as follows: Anne Arundel Co., Contr. AA-24; Allegany Co., Contrs. A-23 and A-24; Howard Co., Contr. HO-16; Montgomery Co., Contr. M-33; Baltimore City, Contr. BC-40; Baltimore Co., Contr. B-46; Queen Annes Co., Contr. Q-24. J. N. Mackall, chn.; adv. this issue.

W. Va., Clarksburg—July 25, paving 28 streets. $200,000. T. Long, city engr.

W. Va., Huntington—July 20, by Comrs. Cabell Co., grading and hard surfacing Barboursville, Seven Mile and Long Branch Wayne Rds, J. N. Doyle, co. engr. Noted June 8.

W. Va., Moundsville—July 20, paving with cement, brick or block Jefferson and Marton Aves., 9th and 4th Sts. $50,000.

W. Va., Ripley—July 24, by Comrs. Jackson Co., grading 4.5 mi. road from Ripley to Union Dist. line Rd., 16 ft. $50,000. H. E. Snyder, Parkersburg, engr.

W. Va., Wheeling—July 29, by Comrs. Ohio Co., rein.-con. surfacing ¾ mi. Glenns Run Rd., 16 ft. $25,000. A. C. Hoffman, Wheeling, engr.

North Carolina—July 25, by State Hy. Comn., Raleigh, grading and hard surfacing Projects 173, 183 A, 236, 342, 484, 494, 535, 713 and 764; topsoiling, sand clay or gravel surfacing Projects 131, 132, 569, 814, 952 and 963; paving with penetration or waterbound macadam Projects 602, 640, 702 A and 888; constructing bridge Project 694; adv. this issue.

N. C., Greenville—July 31, by Pitt Co. Hy. Comn., concrete paving 5 mi. highway from Greenville to Falkland and 7 mi. highway from Greenville to Cox Mill. J. B. Harding, engr.; adv. this issue.

S. C., Anderson—July 20, by Anderson Co. Hy. Comn., grading, bridging and surfacing 5.26 mi. Honea Path-Kays Bridge Rd., 33,703 cu.yd. common and 500 cu.yd. rock excav., 15,425 cu.yd. topsoil, 1,035 lin. ft. rein.-con. pipe, 140 cu.yd. concrete, etc. W. A. Sanders, Anderson, engr.

Fla., Bushnell—July 21, by Comrs. Sumter Co., clearing, grading and hard surfacing 16 mi. road. $65,000. F. Cotton, Rerdell, engr.

Fla., Miami—July 18. 170,819 sq.yd. bituminous macadam pavement and 24,683 sq.yd. concrete sidewalks. F. H. Wharton, city mgr.; adv. this issue.

Fla., Sanford—July 18, by Comrs. Seminole Co., 181,000 sq.yd. macadam, 45,450 sq.yd. brick, 12,700 sq.yd. rock or other hard surfaced shoulders. F. T. Williams, Sanford, engr.

Louisiana—July 25, by State Hy. Dept., Redmond Bldg., Baton Rouge, gravel surfacing 17.08 mi. Federal Aid Project 79, Sects A and B, Hammond-Baton Rouge Highway, also 9.17 mi. Federal Aid Project 362, Sects. A and B, Greensburg-Fisher Highway, Tangipahoa and St. Helena Parishes. J. M. Fourmy, state engr.

La., Thibodaux—July 21, by Police Jury, LaFourche Parish, for 6.83 mi. hard surface roads from Raceland-Houma Highway, to Beatieville Lane. C. J. Coulon, secy.

Tennessee—July 28, by State Hy. Dept., Nashville, grading, paving and bridging 10.04 mi. road between Rockwood and Kingston, Federal Aid Project 85, Roane Co. incl., 58,663 cu.yd. common, 12,403 cu. yd. solid rock and 3,221 cu.yd. borrow excav., 7,820 sta.yd. overhaul, 106,058 sq. yd. 2½ in. bituminous macadam, 1,127.58 cu. yd. concrete, 98,734 lb. deformed steel bars, 109,004 sq.yd. 8 in. hand placed coarse stone base, bridges over 20 ft. span incl. 137.52 cu.yd. concrete, 14,851 lb. deformed steel bars; 8.54 mi. road between Troy and Union City, Federal Aid Project 54, Obion Co., 97,596 cu.yd. common excav., 99,969 sq.yd. 6 in. cement concrete base, 94,415 sq.yd. 2 in. modified Topeka bituminous concrete surface "A." 792.39 cu.yd. concrete, 72,348 lb. deformed steel bars, bridges over 20 ft. span, 925.93 cu.yd. concrete, 112,282 lb. deformed steel bars. D. Q. McComb, Nashville, ch. engr.

Ohio—July 21, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Crawford Co., Sect. "G" Bucyrus-Cresline Rd., 1.69 mi., rein.-con. $64,821, bituminous macadam, asphalt or tar $57,254, brick $78,635.

Hancock Co., Sect. "Arlington" Findlay-Kenton Rd., 0.362 mi. mituminous concrete (brick gutter) $32,768, bituminous concrete (concrete gutter) $30,228.

Hocking Co., Sect. "G-2" Logan-Lancaster Rd., 1.292 mi., brick $51,513, rein.-con. $39,626.

Hocking Co., Sect. "G-2" Logan-Lancaster Rd., 1.776 mi., rein.-con. $61,402, brick $72,307.

Tuscarawas Co., Sect. "New Comerstown" Uhrichsville-New Comerstown Rd., 0.63 mi., semi-monolithic brick $35,735, bituminous concrete $30,855, Kentucky rock asphalt $30,014.

Muskingum Co., Sect. "R" Zanesville-McConnelsville Rd., 0.96 mi., grading and drainage structures $11,624. L. C. Herrick, dir. highways.

O., Akron—July 20, by S. Porter, clk. Summit Co. grading and paving Sect. B-1 Cuyahoga Falls-Hudson Rd., 15,000 cu.yd. earth excav., 12,300 sq.yd. 7 in. waterbound macadam on 3 in. bituminous macadam, $34,350; various streets in Fairlawn Heights, 1,650 lin. ft. stone curb, 10,470 cu.yd. earth and 110 cu.yd. rock excav., 35,511 sq.yd. bituminous macadam, 30,952 ft. 6 in. vitr. sewer, $109,251; Sects. A and B Krumroy-Myersville Rd. 130, 5,600 lin.ft. 6 ft. 8 in. concrete curb, 24,500 cu.yd. earth excav., 14,730 sq.yd. bituminous concrete on waterbound macadam or 13,000 sq.yd. concrete base, $78,248; Sect. D Brittain-Massillon Rd. 49, 17,700 lin.ft. wood curb, 15,500 cu.yd. earth excav., 15,725 sq.yd. 6 in. concrete case, 15,725 sq.yd. vitr. brick, 17,050 sq.yd. concrete or 15,725 sq.yd. bituminous concrete, $71,850, $65,322 or $63,770 respectively. J. Weaver, Court House, engr.

O., Athens—July 21, by Athens Co. grading and bituminous macadam paving 2 mi. Marshfield-Carbondale Rd., also widening 1 concrete bridge, $49,423.

O., Columbus—July 22, by R. W. Smith, clk. Franklin Co., surface treating 28 roads, 295,185 sq.yd. $33,473. C. C. Lattimer, Court House, engr.

O., Dayton—July 20, by Comrs. Montbomery Co., paving Janette St. from Salem to Fairview Sts., 4,200 cu.yd. earth excav., 5,200 sq.yd. concrete or Kentucky rock asphalt on concrete. $25,000. P. S. Bookwalter, co. surv.

Michigan—July 20, by State Hy. Dept., Lansing, grading and surfacing 1 mi. State Trunk Line Rd. 87-2, incl. 4,046 cu.yd. excav., 10,741 sq.yd. asphalt, concrete or bituminous concrete, also 1.75 mi. State Trunk Line Rd. 65-1, Sects. A and B, 10,400 cu.yd. excav., 20,824 sq.yd. asphalt, concrete or bituminous concrete, both Genesee Co. L. H. Belknap, ch. engr.

Michigan—July 20, by State Hy. Dept., Lansing, grading 4.731 mi. State Trunk Line Rd. 51-2, Sect. A, Ottawa Co., 30,000 cu.yd. excav., 600 lin.ft. tile culverts, etc. L. H. Belknap, ch. engr.

Michigan—July 21, by State Hy. Dept., Lansing, grading and surfacing 1.39 mi. State Trunk Line Rd. 36-3, Lapeer Co., 3,523 cu.yd. excav., 15,838 sq.yd. asphalt, concrete or bituminous concrete, also 5.385 mi. Federal Aid Project 84, Monroe Co., 22,587 cu.yd. excav., 56,094 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Michigan—July 26, by State Hy. Dept., Lansing, grading and surfacing 1.923 mi. State Trunk Line Rd. 18-19, Sect. B, Cheboygan Co., 9,632 cu.yd. earth excav., 18,047 sq.yd. gravel. L. H. Belknap, ch. engr.

Mich., St. Joseph—July 19, by H. Harper, clk., paving Pine St. also 1st St. from Viaduct to Pine St., about 4,700 sq.yd. vitr. brick on sand foundation, 3,200 lin.ft. concrete curbing. $25,000.

Illinois—July 17, by State Dept. of Pub. Wks. and Bldgs., Div. of Highways, Springfield, paving with portland cement concrete 0.33 mi. Route 3, Sect. 54, Greene Co., 18 ft., (to be let in conjunction with paving in Carrollton), Kelker, De Leuw & Co., Conway Bldg., Chicago, engrs.; 0.27 mi. Route 25, Sect. 38 C, Iroquois Co., 18 ft., (to be let in conjunction with certain city paving in Clifton), C. F. Helman, Paxton, city engr.; grading 0.23 mi. Project 9, Sect. 39, Madison Co., incl., 23,280 yd. excav.

Ill., Sterling—July 18, grading, curbing and constructing 7,000 sq.yd. rein.-con. pavement on various streets. A. G. Hubbard, city engr.

Streets and Roads (Continued)

Wisconsin—July 18, by State Hy. Comn., at div. office 6, 213 South Barstow St., Eau Claire, grading and surfacing Menomonie-Hudson Rd., Federal Aid Project 1023, Dunn Co., Sta. 260-336 plus 39, 6,267 cu.yd. unclassified excav., 3,780 cu yd. shale and 945 cu.yd. gravel surfacing, etc.; Menomonie-Hudson Rd., Federal Aid Project 1024, Sta. 0-89 plus 10, 9,592 cu.yd. unclassified excav., 4,485 cu.yd. shale and 890 cu.yd. gravel surfacing, etc. A. R. Hirst, highway engr.

Wisconsin—July 19, by State Hy. Comn., at div. office 1, 149 East Wilson St., Madison, grading and paving, 0.85 mi. Madison-Verona Rd., Federal Aid Project 312, Dane Co., 3,143 cu.yd. earth excav., 11,475 lb. reinforcing, 9,000 sq.yd. concrete pavement, etc.; 1.35 mi. Madison-Oregon Rd., Federal Aid Project 273, Dane Co., 4,203 cu.yd. earth excav., 15,837 sq.yd. concrete surfacing, etc.; Reedsburg-Spring Green Rd., Federal Aid Project 243, Sauk Co., alternate bids received on West Route and East Route, West Route incl. 39,866 cu.yd. earth excav., 5,522 cu.yd. borrow, 6,754 cu.yd. solid and 2,100 cu.yd. loose rock excav., etc., East Route, 43,728 cu.yd. earth, 2,605 cu.yd. solid and 2,100 cu.yd. loose rock excav., 4,636 cu.yd. borrow, etc. A. R. Hirst, Madison, highway engr.

Wis., Fond du Lac—July 17, by A. M. Hunter, clk., paving 1.1 mi. 12th, Howard, Oak, South, Grant, Merrill and Rose Sts., 20 ft., rein.-con., sheet asphalt on 5 in. concrete, 1 binder or asphaltic concrete. $25,000. R. Petters, City Hall, Madison, engr.

Wis., Shawano—July 19, by P. J. Winter, clk., paving Division, Main and Andrews Sts., 20 ft., rein.-con. or other type of permanent pavement. $25,000. Private plans.

Wis., Watertown — July 18, by F. S. Weber, clk., paving 1 mi. various streets, incl. 15,000 sq.yd. 1 course concrete with concrete curbs and gutters. $25,000. A. Kraeft, Watertown, engr.

Minnesota—Aug. 1, by State Hy. Dept., St. Paul, 11 mi. State Project 9-29, Federal Aid Project 289, Houston and Fillmore Counties, 270,000 cu.yd. excav., 1,720 sq.yd. concrete spillway, culverts, 8 bridges, $150,000; 10.8 mi. State Project 11-21, Roseau Co., 151,000 cu.yd. excav., culverts, 4 bridges, $107,100; 2 mi. State Project 7-28, Federal Aid Project 233, Brown and Nicollet Counties, 163,000 cu.yd. excav., culverts, $136,300; 17 mi. State Project 8-30, Federal Aid Project 280, Itasca Co., 218,000 cu.yd. excav., culverts, $176,200; 8 mi. State Project 12-21, Federal Aid Project 256, Carver Co., 133,000 cu.yd. excav., $67,100; 6 mi. State Project 42-21, Federal Aid Project 207, Olmsted Co., 90,000 cu.yd. excav., culverts, $75,900; State Project 53-23, Dakota Co., 12,940 sq.yd. one-course concrete paving, culverts, $26,000; 4.5 mi. State Project 7-30, Federal Aid Project 269, Waseca Co., 55,000 cu.yd. excav., culverts, 1 bridge, $32,000; 8.7 mi. State Project 15-29, Watonwan Co., 9,000 cu.yd. excav., gravel surfacing, 1 bridge, $25,000; 1.4 mi. State Project 4-25, Beltrami Co., 37,000 cu.yd. excav., gravel surfacing, 1 bridge, $25,000. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Minnesota—Aug. 2, by State Hy. Dept., St. Paul, gravel surfacing 21,000 cu.yd. State Project 44-21, Federal Aid Project 147-C, Houston Co., $78,600; 24,000 cu.yd. State Project 9-23, Jackson and Nobles Counties, $46,200; 15,600 cu.yd. State Project 3-32, Wilkin Co., $35,000; 10,426 cu.yd. State Project 9-30, Mower Co., $30,000; 4,000 cu.yd. State Project 8-37, Federal Aid Project 94, Polk Co., $12,000; 8,300 cu.yd. State Project 8-36, Polk Co., $16,000; 10,300 cu.yd. State Project 8-38, Federal Aid Project 204, Itasca Co., $17,000. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Minn., St. Paul—July 17, by H. W. Austin, city purch. agt., paving Grand Ave. from Oakland Ave. to Milton St. and from Milton St. to Cretin Ave., creosoted wood blocks, $108,000; Hudson Rd. from Point Douglas Rd. to east city limits, concrete, $30,000. O. Claussen, city engr.

Kan., Larned—July 28, by Comrs. Pawnee Co. grading, sand clay surfacing, etc., 10.283 mi. Santa Fe Trail, Sects. A, B and C, Federal Aid Project 123.

Mo., Columbia—July 24, by J. S. Bicknell, city clk., grading, curbing, guttering and paving, 5 streets, Kentucky rock asphalt; adv. this issue.

Mo., Columbia—July 24, by J. S. Bicknell, city clk., repairing, surfacing and resurfacing about 37,000 sq.yd. streets in Dists. 2, 4, 6 and 7, tarvia preparations; adv. this issue.

Mo., Kennett—July 18, at office of D. Stroud, city clk., curbing, grading, laying sewers and paving various streets. C. E. Smith & Co., Cape Girardeau, engrs.; adv. this issue.

Tex., Cameron—July 25, by J. T. Kemp, judge Milam Co., grading, surfacing, etc., 17.94 mi. State Highway 36, Federal Aid Project 222, incl. 91,035 cu.yd. borrow, 46,343 cu.yd. roadway excav., 1,114 cu.yd. concrete, 96,008 lb. reinforcing, 37,241 cu.yd. schist and 2,523 cu.yd. gravel. $113,547. A. F. Mitchell, co. engr.

Tex., Farmersville—July 18, by Mayor, paving and grading McKinney, Washington and Main Sts., 10,841.6 sq.yd. cement concrete or vitr. brick on concre e, 1,196 lin.ft. combined curb and gutter. $25 000. Montgomery & Ward Co., Wichita Falls, engrs.

Tex., Tyler—July 21, by D. R. Pendleton, judge Smith Co., grading, surfacing, etc., 14.73 mi. Highway 37, Federal Aid Project 284, 691.9 cu.yd. concrete, 58,149 sq.yd. bituminous macadam, 37,121 sq.yd. concrete pavement, 52,152 lb. reinforcing, 5,148 cu.yd. clay binder, 10,296 cu.yd. imported and 11,949 cu.yd. local gravel. $252,003. Materials for concrete structures, and gravel and clay, to be furnished by county. D. K. Caldwell, engr.

N. M., Roswell—Aug. 4, at office of J. A. Gilmore, city clk., grading, curbing, guttering and paving various streets. L. Rowland, city engr.; adv. this issue.

California—July 24, by State Hy. Comn., Sacramento, grading 9.9 mi. and graveling 2.5 mi. highway between Hopland and El Robles. A. B. Fletcher, state highway engr.

California—July 31, by State Hy. Comn., Sacramento, grading and concrete paving 10.9 mi. highway between Colusa and Long Bridge, Colusa and Sutter Counties; grading 11.7 mi. between Fish Springs School and Southeast corner Sect. 33, T. 8 S., R. 33, M. D. B. and M., Inyo Co., 6.8 mi. between Cottonwood Creek and First Corner Kern River, Kern Co.; asphaltic concrete surfacing 0.8 mi. between Arcola School and Borden Station. A. B. Fletcher, state highway engr.

Cal., Redwood City—July 17, surfacing Roosevelt Ave., 166,400 sq.ft. oil macadam. C. L. Dimmitt, Redwood City, engr.

Cal., San Rafael—July 17, by Supervs. Marin Co., improving Point San Pedro Rd., Sect. 1, 67,809 sq.ft. 4 in. bituminous concrete or 5 in. hydraulic concrete, 840 lin.ft. 8-15 in. corrugated iron pipe culverts, 500 cu.yd. grading, etc.; Point San Pedro Rd., Sect. 2, 40,190 sq.ft. 4 in. bituminous concrete or 5 in. hydraulic concrete, 1,200 cu. yd. grading, 850 cu.yd. fill, etc.; Bolinas Rd., Sect. 5, 9,459 cuyd. grading etc., Sect. 7, 4,354 cu.yd. grading, 500 cu.yd. surfacing, etc., Sect. 8, 9,414 cu.yd. grading, 1,000 cu. yd. surfacing, etc., Sect. 9, 2,528 cu.yd. grading, 400 cu.yd. surfacing etc. G. M. Dodge, co. surv.

Ont., Oakville—July 17, by P. A. Bath, council clk., 7,565 sq.yd. concrete pavement, 6,426 lin.ft. curbs and gutters, 7,340 sq.yd. tarvia pavement and 8,600 lin.ft. concrete sidewalks. $28,000. Prices wanted on cement. J. A. Bell, Court House, St. Thomas, engr.

BIDS RECEIVED

Maine—State Hy. Dept., Augusta, opened bids June 23, (1) 3.443 mi. State Highway "O," Project 35, in Canton, 112 cu. yd. concrete masonry, 10,856 cu. yd. earth and 385 cu. yd. rock excav., 7,897 cu. yd. gravel, (2) 0.32 mi. State Highway "K", Project 47, in Island Falls, 500 sq. yd. cobble gutter, 4,382 cu. yd. earth excav., 712 cu. yd. gravel, (3) 4.023 mi. State Highway "O", Project 32, in Canton, 129 cu. yd. concrete masonry, 7,200 cu. yd. earth excav., 1,537 cu. yd. borrow, 5,307 cu. yd. gravel base, 5,855 cu. yd. gravel, (4) 0.85 mi. State Highway "F", in Wilton Village, 330 cu. yd. masonry, 790 lin. ft. concrete curbing, 361 sq. yd. sidewalk, 3,100 cu. yd. earth excav., 430 cu. yd. borrow, 223 cu. yd. stone and gravel base, 1,834 cu. yd. gravel, (5) 3.14 mi. State Highway "K", Project 51, in Easton, 52 cu. yd. concrete masonry, 10,260 cu. yd. earth and 1,920 cu. yd. rock excav., 500 cu. yd. borrow, 1,287 cu. yd. gravel and stone base, 7,833 cu. yd. gravel, (6) 2.188 mi. State Highway "K", Project 43, in Orono, 4,493 cu. yd. concrete, 3,500 cu. yd. earth excav., 1,800 cu. yd borrow, 4,200 cu. yd. gravel base, 225 cu. yd. gravel, 200,680 lb. reinforcing, (7) 1.76 mi. State Highway "K", Project 53, in Orono, 3,600 cu. yd. concrete, 3,800 cu. yd. earth excav., 1,600 cu. yd. borrow, 3,800 cu. yd. gravel base, 159,800 lb. reinforcing, (8) 4.66 mi. State Highfihway "E", Project 12, in New Gloucester, from W. H. Doran, Mercer, (1) $32,065 (4) $17,552; J. H. Ke . Rumford, (1) $40,369 (3) $46,101 (4) $17,539; R. and J. McGregor, Rumford, (1) $41,971 (3) $48,490; M. Hughes, 105 3rd St., Bangor, (2) $8,237 (5) $47,229; H. A. Day, 284 Parkview Ave., Bangor, (2) $9,951; G. W. York, Island Falls, (2) $15,242; Arborio Road Constr. Co., 721 Main St., Hartford, Conn., (3) $48,805; A. V. Leo Constr. Co., Thompson, Conn., (4) $17,979 (5) $53,466; McCabe & Giovanni, 24 East Concord St., Boston, Mass., (5) $54,400; Portland Constr Co., 21 Portland St., Portland, (6) $55,992 (7) $51,178; A. D. Bridges Sons, Inc., Hazardville, Conn., (6) $57,327 (7) $51,041; Hassam Paving C., 17 Federal St., Worcester, Mass., (6) $57,896 (7) $50,717; J. McCormick, 319 Taunton Ave., East Providence, R. I., (8) $191,120; Forgione & Romano, Fidelity Bldg., Portland, (8) $191,840; Bruno & Pettiti, 18 Tremont St., Boston, Mass., (8) $212,459. Noted June 8.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids July 5, repaving roadway of Bway. from Kent to Bedford Aves., new granite blocks, from J. Meehan & Son, 74 Cortlandt St., New York, $43,372; Greico Bros., 172 Russell St., $46,980; Brooklyn Manhattan Contg. Co., 26 Court St., $57,100. Noted June 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., opened bids July 5, recurbing, reflagging and paving (1) 5th Ave. from Grand to Jamaica Aves., paving (2) Liberty Ave. from 104th to 109th Sts., repaving (3) Cooper Ave. from Myrtle Ave. to Brooklyn Boro line, 2nd Ward, from Cleveland Trinidad Paving Co., Flushing, (1) $12,045, (2) $45,505, (3) $66,414; W. P. McDonald Constr. Co., 17 West 42nd St., New York, (1) $13,105, (2) $41,610, (3) $81,622; Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, (2) $46,390. Noted June 29.

N. Y., New York—Dept. Parks, Municipal Bldg., opened bids July 6, paving centre roadway of Bronx and Pelham Parkway from point approximately 600 ft. west to Williamsbridge Rd. to Bronx Park East, in Boro of Bronx, from C. D. Beckwith, Inc., 2875 Bway., $27,515; Interboro Asphalt Co., 2306 Creston Ave., $29,789; Asphalt Constr. Co., 208 Bway., $30,177.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., opened bids July 6, paving Ft. Washington Pl., (Magaw Pl.) from Hastings Pavement Co., 25 Broad St., $12,443, Burnside Contg. Co., 270 Burnside Ave., $13,451, Regan Towers Co., 124 West 121st St., $14,044; widening and repaving Madison Ave. (curb to rail) from J. E. Gaffney, 143rd St. and Harlem River, $52,731, Asphalt Constr. Co., 208 Bway., $52,793, Uvalde Asphalt Paving Co., 1 Bway., $53,305; 34th St. (curb to rail), from W. J. Fitzgerald, 547 West 45th St., $19,509, Interboro Asphalt Co., 2306 Creston Ave., $21,383, C. D. Beckwith, Inc., 2875 Bway., $22,241. Noted June 29.

N. Y., White Plains—Bd. Supervs. Westchester Co., Court House, opened bids July 3 constructing North Bway., Co. Rd. 6, from Petrillo Bros., 434 North High St., Mt. Vernon, $42,778. Noted June 22.

North Carolina—State Hy. Dept., Raleigh, (a) clearing, grading and topsoiling, (b) rein.-con. bridges and culverts on (1) 9.76 mi. State Project 661, Richmond Co., (2) 6.92 mi. State Project 402, Chatham Co., (3) 12.82 mi. State Project 419, Franklin Co., (4) 20.5 mi. State Project 167, Northampton Co.; (a) grading and concrete or asphaltic paving, (b) rein.-con. bridges and culverts on (5) 7.83 mi. State Project 473, Vance Co., (6) 1.56 mi. State Projects 420 A and B, Franklin Co., (7) 10.62 mi. State Project 742, Forsyth Co., (8) 3.53 mi. State Project 713, Ashe Co.; grading and concrete or asphaltic paving (9) 19.2 mi. State Projects 386 and 387, Robeson Co., (10) 0.14 mi. State Project 264 Craven and Pamlico Counties, (11) 11.25 mi. State Project 463, Person Co.; clearing and grading (12) 12.88 mi. State Project 145, Hertford Co.; (a) clearing and grading, (b) rein.-con. bridges and culverts on (13) 5.18 mi. State Project 711, Ashe Co.; (a) clearing, grading and concrete or asphaltic paving, (b) rein.-con. bridges and culverts on (14) 5.77 mi. State Project 665, Richmond Co.; clearing, grading and concrete or asphaltic paving (15) 5.54 mi. State Project 800, Avery Co.; clearing and grading (16) 13.68 mi. State Project 200, Carteret Co., from McDonald & Brooks, Hamlet, (1a) $31,802, (1b) $5,346; W. H. Saunders Hamlet, (1a) $35,585, (1b) $5,185; J. F. Mulligan, North Wilkesboro, (1a) $35,355 (1b) $5,429, (2a) $25,617, (2b) $4,985 (8a) $131,176, (13a) $43,563; J. T. Plott, Greensboro, (2a) $25,420, (2b) $5,137; F. P. Holder Jefferson, Ga., (2b) $4,816; Jamison

Streets and Roads (Continued)

Bros., High Point, (2a) $25,811, (3a) $42,490, (4a) $71,218; Brooks-Calloway Co., Forsyth Bldg., Atlanta, Ga., (3a) $46,472, (3b) $13,523, (4b) $19,406; Olliver & Costello Bros., Knoxville, Tenn., (3b) $14,479, (15) $155,486; C. B. Hester, Greensboro, (3a) $49,486; J. A. Kreis, Holston Bank Bldg., Knoxville, Tenn., (3b) $14,851, (14b) $7,707; Bacon&Moore, Littleton, (4b) $16,-597; Virginia Contg. Co., Petersburg, Va., (4a) $73,630; Atlantic Bridge Co., Roanoke, Va., (4b) $18,093; Porter & Peck, Greenville, (4a) $73,889; R. G. Lassiter, Citizens Bank Bldg., Raleigh, (5a) $236,071, (5b) $5,335, (6a) $47,060, (6b) $3,821; Porter & Boyd, Realty Bldg., Charlotte, (5a) $240,-763, (5b) $6,033, (11) $297,408; Concrete Steel Bridge Co., Clarksburg, W. Va., (5b) $5,901, (7b) $14,064, (8b) $18,082, (13b) $13,914; Hardaway Constr. Co., Charlotte, (5a) $242,702, (7a) $381,888; Chandler & Ragland, Virgilina, Va., (6a) $46,349, (6b) $4,175; Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn., (6b) $4,360, (8b) $19,579, (13b) $14,701, (14b) $7,827; Harris Constr. Co., Newton, (7f) $363,911, (7b) $13,846; Hagedorn Constr. Co., Thomasville, (7a) $364,765, (7b) $13,866; J. O. Heyworth, Harvester Bldg., Chicago, (9) $552,024; General Constr. Co., Raleigh, (9) $574,285; S. J. Graves, Minneapolis, Minn., (9) $610,-895; Rhyne & Kitchen, Blacksburg, S. C., (10) $25,000; Batson-Cook Co., West Point, Ga., (10) $27,196, (16) $45,463; Eagle Eng. Co., New Bern, (10) $28,188, (16) $45,385; A. S. Wardrep, Holston Bank Bldg., Knoxville, Tenn., (11) $298,868, (14a) $169,607, (14b) $7,312; W. W. Boxley, Roanoke, Va., (11) $299,325; O'Brien Constr. Co., Balsam, (12) $41,084, (15) $147,836; N. L. Teer, Durham, (12) $41,281; J. P. Dicus, Robersonville, (12) $44,283; Turner-Hartsoe Constr. Co., Warrensville, (13) $14,492; Lampton & Burks, Louisville, Ky., (14a) $171,331; C. D. Rigsbee, Durham, (14a) $176,514; Luck Co., Sylva, (15) $152,559, (16) $52,121. Noted June 8.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids June 30, grading, bridging and paving roads with (a) rein.-con., (b) brick, (c) asphaltic macadam, oil, (d) tar macadam, (e) bituminous concrete, (f) waterbound macadam, (g) asphaltic macadam, (h) concrete, in following counties: Auglaize Co., Sect. "H" Lima-Wapakoneta Rd., 6,558 mi., from Radebaugh-Graham Co., Columbus, (a) $177,-325 (b) $239,823; Lewis & Copeland, Lima, (a) $178,193 (b) $233,257; J. Wroe, 54 Davies St., Dayton, (a) $191,394; V. Smith, Dayton, (b) $234,436. Auglaize Co., Sect. "G" Sidney-Wapakoneta Rd., 5.305 mi., from Lewis & Copeland, Lima, (a) $155,-419 (b) $203,723; Radebaugh-Graham Co., Columbus, (a) $155,968 (b) $201,580; J. Wroe, 54 Davies St., Dayton, (a) $157,083 (b) $204,223. Clark Co., Sect. "L-1" Springfield-Washington C. H. Rd., 1.65 mi., from Central Paving Co., Hamilton, (c) $32,329 (d) $32,809; W. H. Ringwold & Sons Co., Chillicothe, (c) $33,106 (d) $33,106; N. B. Putnam, Van Wert, (c) $34,161 (d) $34,-083. Clark Co., Sect. "O" Springfield-Washington C. H. Rd., 1.857 mi., from W. H. Ringwold & Sons Co., Chillicothe, (c) $40,411 (d) $40,411; Central Paving Co., Hamilton, (a) $52,714 (c) $42,044 (d) $42,574, (e) $52,097; N. B. Putnam, Van Wert, (c $43,817 (d) $43,729; C. Bird, Springfield, (a) $54,416; M. J. Cooney, Springfield, (a) $54,933; A. G. Pugh, Columbus, (e) $53,786. Crawford Co., Sects. "M" and "N" Marion-Bucyrus Rd., 6.705 mi., from E. A. Freshwater & Son, Bucyrus, (b) $37,750. Fayette Co., Sect. "G" Washington C. H.-London Rd., 4.268 mi., from Craig & Jordan, Blanchester. (d) $86,927 (f) $74,732 (g) $88,949; W. H. Ringwold & Sons Co., Chillicothe, (d) $91,980 (f) $79,159 (g) $91,920; C. L. Straw, Paulding, (d) $91,000 (f) $80,776 (g) $91,000. Holmes Co., Sect. "B" Navarre-Berlin Rd., 3.987 mi., from Griggs-Anderson Constr. Co., Millersberg, (h) $78,426. Lawrence Co., Sect. "R" Ohio River Rd., 0.676 mi., from G. B. Mahl, Ironton, (e) $16,764; G. C. Harden, Ironton, (e) $15,883. Lawrence Co., Sect. "O" Ohio River Rd., 1.468 mi., from Jenkins Bros., Kittsville, (e) $35,505. Pike Co., Sect. "C-1" Columbus-Portsmouth Rd., 0.393 mi., from Anderson & Brown, Chillicothe, (a) $21,617; Waverly Lumber & Constr. Co., Waverly, (a) $21,986; Harper & Ruel, Portsmouth, (a) $23,673. Tuscarawas Co., Sect. "Mineral City" Canton-Canal Dover Rd., 1.03 mi., from Daley Bros., Bolivar, (b) $34,611; C. G. Fuller, Dover, (b) $35,041; Kane Bros., Youngstown, (b) $35,184. Athens Co., Sect. "L-1" New Lexington-Athens Rd., 2.659 mi., grading and building bridge, from Sterling Constr. Co., Akron, $31,544; J. A. Petrie, Logan, $33,954; D. M. Sawyer, Glouster, $34,420. Hamilton Co., Sect. "Z" Glendale-Milford Rd., 1.798 mi., grading and paving from Cleary, Coley & Berry, Cincinnati, (h) $96,093. Hamilton Co., Sect. "Z" Glendale-Milford Rd., building drainage structures, from K. Vaughn, Hamilton, $51,950. Cleary, Coley & Berry, Cincinnati, $60,663. Lawrence Co., Sect. "M-2" Ohio River Rd., 0.14 mi., building rein.-con. bridge, from G. B. Mahl, Ironton, $14,798. Lawrence Co., Sect. "M" Ohio River Rd., constructing culvert, from G. C. Hardin, Ironton, $3,721. Noted June 22.

O., Akron—M. P. Tucker, dir. Pub. Serv., opened bids July 5, grading and paving, etc., (1) 1,565 ft. Bluff and Prospect Sts., (2) 750 ft. Weber and Charlotte Sts., (3) 6,140 ft. Tallmadge Ave., (4) 2,000 ft. Spicer St., (5) 2,450 ft. Cole Ave., (a) brick, (b) brick and stone, (c) asphalt and brick, (d) asphalt, from H. Gilbert, 19 South Martha Ave., (1a) $30,766, (1b) $32,296, (2a) $15,-927, (5a) $61,940; McAlonan Bros., 506 Woodland Ave., (1a) $30,938, (1b) $32,488, (1c) $32,928, (2a) $15,953, (3a) $128,911, (3d) $127,971, (4a) $34,045, (4d) $34,276, (5a) $60,865, (5d) $61,225; Hollinger & Davidson, 315 South Bway., (1a) $31,089, (1b) $32,838, (2a) $17,047; V. Olson Contg. Co., Herberich Bldg., (3a) $127,839, (5a) $61,257; T. E. McShaffrey Constr. Co., 171 South Forge St., (3a) $133,790, (d) $128,-004, (4a) $36,128, (4d) $34,273; S. F. Baker, Box 174, R. F. D. 24, South Akron, (4a) $34,020. Noted June 29.

O., Cleveland—Repaving Euclid Ave. from East 115th St. to city limits, 200 cu. yd. earth excav., 10,370 sq. yd. asphalt and 52,000 sq. ft. stone relaid and filled with asphalt, from Cleveland Trinidad Paving Co., The Arcade, $39,765; River Constr. Co., Schofield Bldg., $41,679.

O., Cleveland—Cuyahoga Co. opened bids July 1 paving Pleasant Valley Rd. 1, 13,000 cu.yd. earth excav., 22,300 sq.yd. 8 in. concrete, 25,000 lin.ft. 4 in. sewers, from M. A. Ryan, c/o Pavers Exch. Society for Savings Bldg., $78,616; King Bridge Co., foot of East 69th St., $80,013; Ohio Contg. Co., Elyria, $81,414. Engrs. est. $87,527.

O., Euclid—Opened bids July 3, asphalt paving (1) Beachview Ave., (2) Cambridge, Elsmer and Hawthorne Aves., from H. G. Herring, c/o Pavers Exch., Society for Savings Bldg., Cleveland, (1) $23,403 (2) $23,-700; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (1) $23,574 (2) $22,925. Noted June 22.

Michigan—State Hy. Dept., Lansing, received low bid, grading and surfacing 2.912 mi. Federal Aid Project 75, Sect. B, Jackson Co., 14,148 cu.yd. excav., 34,324 sq.yd. bituminous concrete, from Brooks Constr. Co., 2104 Miner St., Ft. Wayne, Ind., $81,-644. Noted June 22.

Michigan—State Hy. Dept., Lansing, opened bids June 27, grading and surfacing 4.56 mi. State Trunk Line Rd. 16-5, Ottawa Co., from H. A. Hoxie, Grand Rapids, $76,923; C. Marsman, Grand Rapids, $79,015; New Era Road Bldg. Co., New Era, $81,266. Noted June 22.

Michigan—State Hy. Dept., Lansing, grading and surfacing 1.134 mi. State Trunk Line Rd. 18-20, Sect. A, and 61-2, Sect. A, Gladwin Co., from H. Campbell & Son, Bay City, $18,674, Taylor Constr. Co., Birmingham, $20,257, McKimmey & Mills, Beaverton, $20,343; 3.429 mi. State Trunk Line Rd. 37-5, Sect. C, Barry Co., from P. W. O'Conner & Son, Grand Rapids, $26,989, H. A. Brog, Middleville, $28,365, Saginaw Constr. Co., Saginaw, $28,664; 3.136 mi. State Trunk Line Rd. 79-1, Barry Co., from P. W. O'Conner & Son, Grand Rapids, $28,-524, J. Mishler, Freeport, $42,630, Byam & Whitmore, Eagle, $42,984; 2 mi. State Trunk Line Rd. 25-14, Alger Co., from Alger Co. Rd. Comn., Munising, $30,000, Hall & Labby, Negaumee, $38,435.

Mich., Detroit—Opened bids paving (1) Cherrylawn Ave., (2) Cloverlawn Ave., (3) Cortland Ave., (4) Hardyke Ave., (5) Lemay Ave., (6) Monterey Ave. from 12th to Linwood Aves., (7) Monterey Ave. from Linwood to Dexter Aves., (8) Northlawn Ave., (9) Oakland Ave., (10) Rogers Ave., (11) Taylor Ave., (12) Thompson Court, (13) Jos. Campau Ave., from Detroit Asphalt Paving Co., 20 McGraw Bldg., (1) $20,489 (2) $37,170 (3) $14,963 (4) $8,865 (5) $21,173 (6) $37,695 (7) $38,337 (8) $34,656 (9) $71,307 (10) $14,504 (11) $15,-748 (12) $4,351 (13) $51,045; Cleveland Trinidad Paving Co., 402 Hammond Bldg., (1) $21,678 (2) $39,582 (3) $14,678 (4) $8,915 (5) $23,037 (6) $37,053 (7) $37,373 (8) $36,901 (9) $77,518 (10) $14,744 (11) $16,938 (12) $5,047 (13) $54,640; G. R. Cooke, 1260 Penobscot Bldg., (9) $73,361 (13) $51,938. Noted June 8.

Wis., West Allis—Paving with (a) rein.-con., (b) vibrolithic concrete, from R. L. Reisinger Co., 464 Oakland Ave., Milwaukee, 1,292 sq.yd. North Gordon Ave., (a) $2.22 (b) $2.37, 2,701 sq.yd. 45th Ave., (a) $2.16 (b) $2.31, 5,508 sq.yd. 48th Ave., (a) $2.16 (b) $2.31, 6,330 sq.yd. 50th Ave., (a) $2.16 (b) $2.31, 7,288 sq.yd. 51st Ave., (a) $2.15 (b) $2.31, 3,455 sq.yd. 52nd Ave., (a) $2.16 (b) $2.31, 4,073 sq.yd. 54th Ave., (a) $2.16 (b) $2.31, 4,617 sq.yd. 63rd Ave., (a) $2.16 (b) $2.31, 2,049 sq.yd. Scott St., (a) $2.20 (b) $2.33. Noted June 22.

Missouri—State Hy. Dept. at div. office Alexandria opened bids June 23, 1.754 mi. road from Wayland to Keokuk, Federal Aid Project 172, Clark Co., (1) 3,914 cu. yd. earth excav., (2) 1,444 cu. yd. borrow, (3) 16,576 sq. yd. 1 course concrete, etc., from Cameron-Joyce & Co., Keokuk, Ia., (1) $0.40 per cu. yd. (2) $0.35 (3) $2.88, total $50,792; Keokuk Quarry Constr. Co., Keokuk, Ia., (1) $0.50 (2) $0.50 (3) $2.92, $52,123; Lynch-McDonald Constr. Co., Moberly, (1) $0.50 (2) $0.40 (3) $2.96, $52,-469. Noted June 22.

Missiouri—State Hy. Dept. at div. office Boonville, opened bids May 18, 5.57 mi. road from Boonville eastward, Federal Aid Project 24, Cooper Co., (1) 38,697 cu. yd. earth excav., (2) 6,200 sq. yd. broken stone base course, (3) 36,200 sq. yd. specification A bituminous macadam surface course, fluxed native asphalt binder, (4) 36, 200 sq. yd. specification A bituminous macadam surface course, oil asphalt binder, (5) 36,-200 sq. yd. specification A bituminous macadam surface course. cool tar cement binder, etc., from E. C. Johnson, Carrollton, (1) $0.37 per cu. yd. (2) $0.77 (3) $0.92 (4) $0.905 (5) $0.905, total $75,570; Land Constr. Co., Ballinger Bldg., St. Joseph, (1) $0.40 (2) $0.80 (3) $0.98 (4) $0.97 (5) $0.97, $85,258; E. J. Meeke & Co., Kansas City, (1) $0.45 (2) $1.08 (4) $0.99 (5) $0.91, $106,348.

Missouri—State Hy. Dept. at div. office Houston, opened bids June 22, 3.7 mi. road from Houston to Rolla. Federal Aid Project 109 B. Texas Co., (1) 16,100 cu. yd. earth excav., (2) 1,225 cu. yd. rock excav., (3) 26,304 sq. yd. gravel surfacing, etc., from Coopers Constr. Serv. Co., St. Louis, (1) $0.35 per cu. yd. (2) $1.75 (3) $0.46, total $35,170; M. E. Gillioz, Monett, (1) $0.40 (2) $2 (3) $0.40. $35,356. Noted June 22.

Missouri—State Hy. Dept. at div. office Ironton, opened bids May 26, 11.26 mi. road from Ironton to Potosi, Federal Aid Project 107A, Iron Co., (1) 30,717 cu. yd. earth excav., (2) 27,549 cu. yd. borrow, etc., from St. Louis Bridge & Supply Co., Frisco Bldg., St. Louis, (1) $0.36 per cu. yd. (2) $0.41, total $40,625; M. E. Gillioz, Monett, (1) $0.40 (2) $0.35, $42,299; C. Gove, St. Louis, (1) $0.50 (2) $0.495, $45,-213. Noted May 18.

Missouri—State Hy. Dept. at div. office Liberty, opened bids June 6, surfacing 10.52 mi. road from North Kansas City to Nashau, Federal Aid Project 6A. Clay Co., (1) rock asphalt, (2) concrete, (3) penetration macadam, (4) inverted penetration macadam, (5) asphaltic concrete, from O. G. Chapin, San Antonio, Tex., (1) $237,140; J. O. Patterson & Co., 311 Ridge Bldg., Kansas City, (1) $297,343 (3) $267,775 (4) $207,-933; Lewis-Rich Constr. Co., St. Louis, (1) $316,026 (2) $319,802; Koss Constr. Co., 2818 5th Ave., Des Moines, Ia., (2) $302,-480; Dalton Constr. Co., Junction City, Kan., (2) $321,133; W. A. Ross, Kansas City, (3) $233,457; Unit Constr. Co., Title Guaranty Bldg., St. Louis, (4) $247,275.

Missouri—State Hy. Dept. at div. office Liberty, opened bids June 5, paving 13.07 mi. road from Liberty to Excelsior Springs. Federal Aid Project 25, Clay Co., (1) inverted penetration macadam, (2) penetration macadam, (3) asphaltic concrete, (4) rock asphalt, (5) concrete, from P. P. Young, Savannah Rd., St. Joseph, (1) $240,-748 (2) $264,808 (5) $369,270; E. S. Meeke & Co., Kansas City, (1) $254,608 (2) $275,-023 (3) $343,884; Unit Constr. Co., Title Guaranty Bldg., St. Louis, (3) $303,052; L. Rich Constr. Co., 429 Missouri Ave., East St. Louis, Ill., (4) $393,222 (5) $399,-366; O. C. Chapin, San Antonio, Tex., (4) $396,771; Koss Constr. Co., 2818 5th St., Des Moines, Ia., (5) $388,506.

Tex., Dallas—Dallas Co. grading, etc., (1) 8.6 mi. Midway Church Rd., incl., 10,000 cu.yd. scarifying and reshaping, 23,000 cu.yd. earth excav., 20,000 cu.yd. native and 8,000 cu.yd. crushed stone, etc.; (2) grading surfacing with macadam and ½ in. bituminous topping 2.9 mi. Maple Ave. Rd., 2,000 sq.yd. reshaping and scarifying, 10,000

Streets and Roads (Continued)

cu.yd. earth excav., 5,270 cu.yd. native and 1,850 cu.yd. crushed stone to be furnished by county; from Hill, Wilson & Watson, Dallas, (1) $63,378, (2) $23,971; Wear & Thomas, Rogers, (1) $66,681, (2) $24,784.

Tex., Richmond—Ft. Bend Co. surfacing 13.01 mi. State Highway 36, (a) 9 in. gravel base, (b) 6 in. shell and 4 in. rock base with 1 in. bituminous topping, from Haden & Austin, Hill and Marsch Sts., Houston, (a) $121,603, (b) $129,413; Cooke & Arrington, Crockett, (a) $118,438, (b) $132,239; Wear & Thomas, Rogers, (a) $122,049, (b) $144,920. Noted June 15.

Tex., San Angelo—Tom Green Co. opened bids June 30, grading, surfacing and topping 15.43 mi. State Highway 4, from Harris & Powell, Tyler, $93,357; McColium Constr. Co., 1507 F & M Bank Bldg., Ft. Worth, $99,841; M. M. Craven, Fredericksburg, $107,435. Noted June 22.

Wash., Seattle—Opened bids June 30, paving, etc., Wilson Ave. et al., (a) 34,000 sq.yd. 7 in. concrete, (b) 4,380 sq.yd. 6 in. concrete, (c) 7,125 lin.ft. concrete curbing, type A, (d) 12,000 cu.yd. subgrade, etc., from Independent Asphalt Paving Co., Seaboard Bldg., (a) $1.99, (b) $1.79, (c) $0.35, (d) $0.60, total $133,467; A. Tocco & Co., 1125 20th Ave. S., (a) $1.90, (b) $1.70, (c) $0.40, (d) $0.75; total $136,850; J. L. Smith, Pioneer Bldg., (a) $1.80, (b) $1.65, (c) $0.45, (d) $0.70, total $137,538. Engrs. est. $140,598.

CONTRACTS AWARDED

Vermont—State Hy. Dept., Montpelier, 5.71 mi. gravel road, Project 32, in Orange, to G. L. Gregoire & Co., Barre, $102,069; 2.15 mi. gravel road, Project 31, in Concord, to Dix & Stapes, Springfield, Mass., $39,-298; 1.97 mi. Project 30, in Lunenberg, to Colburn Constr. Co., Concord, N. H., $41,-901. Noted July 6.

Massachusetts—State Hy. Dept., Boston, constructing 6,950 ft. State Highway in Ayer and Shirley, 13,900 sq.yd. bituminous macadam, and 3,400 ft. in Acton, 6,800 sq.yd. bituminous macadam, to Canedy Constr. Co., New Bedford, $33,648 and $27,306 respectively; 600 ft. in Ashland, 1,200 sq.yd. bituminous macadam, to J. L. Schube, Ashland, $5,998.

Mass., West Springfield—Paving Riverdale Rd., 23,000 sq.yd. rein.-con. on 8 in. concrete, with 3 ft. tar macadam shoulders, to Hassam Paving Co., 17 Federal St., Worcester, $82,839.

Conn., New Haven—Paving Maple St. from Sherman to Pendleton Sts., 14,000 sq. yd. 1:2:4 concrete, 3,000 lin. ft. curving, to McGann Bros., New Haven. Engrs. est. $25,000. Noted June 22

N. Y., Buffalo—Paving Fisher St., specification B standard asphalt on concrete, to H. P. Burgard Co., 1968 Fillmore Ave., $27,067.

N. Y., Massena—President and Village Bd. Trustees rejected bids opened June 26, paving Bridges Ave., Andrews, Water and North Main Sts. Work will be done by day labor. Noted June 15.

N. Y., Spencer—Will macadamize 2 mi. Halsey Rd., by day labor under supervision of A. Peet, engr., Spencer, $25,000.

N. Y., Victor—Bd. Trustees improving Maple Ave., to M. C. Soper, 72 Cayuga St., Seneca Falls, $44,639. Noted June 15.

N. Y., White Plains—Bd. Supervs. Westchester Co., Court House, constructing Seven Bridge Rd. Co. Rd. 5, in towns of New Castle and Yorktown, to F. G. Fowler Constr. Co., 77 Carpenter Ave., Mt. Kisco, $38,408; Croton Point Ave., Co. Rd. 7, Harmon, to Christopher Bros., Peekskill, $8,362. Noted June 22.

N. J., Avon—Monmouth Co. (Freehold) constructing 8,845 sq.yd. State Highway Route 4, Sect. 11, here, rein.-con., to E. J. Bridge Co., 175 Smith St., Perth Amboy, $54,814. Noted May 25.

N. J., Belvidere—Warren Co. constructing 46,425 sq.yd. State Highway Route 5, Sect. 9, Barkers Corner-Hackettstown, concrete, to F. J. Gromans Sons, Bethlehem, $230,274. Noted May 11.

N. J., Boonton—Morris Co. (Morristown) repaving, 14,440 sq. yd. East Main St. concrete, to Huss & Young, Towaca, $57,350.

N. J., Long Branch—Bd. City Comrs. paving Liberty St. from Bway. to Atlantic Ave., to W. P. McDonald Constr. Co., Long Branch, $70,000. Noted June 15.

N. J., Red Bank—Monmouth Co. (Freehold) constructing 23,307 sq.yd. State Highway Route 4, Sect. 5-A, Maple Ave., here, cement, to T. J. Barrett, 147 Lafayette Ave., Trenton, $93,429. Noted June 1.

N. J., South Orange—Paving Ridgewood Rd. from West Orange line to South Orange Twp. line, 25,940 sq.yd., 5 x 12 x 2½ in. Hastings asphalt block, to J. Selitto, South Orange, $134,625.

Pa., Greensburg—Westmoreland Co., paving 3.3 mi. Youngwood and Hunker Rds., and grading and paving 3,600 ft. from Hunker to road in East Huntington Twp., to R. H. Cunningham & Sons, Turtle Creek (East Pittsburgh P. O.), $136,375 and $37,-352 respectively.

Pa., Verona—S. P. Grundy, secy. Boro. Council, paving 2nd St. from South Ave. to Verona Rd., to Booth & Flinn Ltd., 1942 Forbes St., Pittsburgh; North Ave. from High to 2nd Sts., to McCrady Bros., 6th Ave., Braddock. Noted June 8.

D. C., Georgetown—Baltimore & Ohio R.R., 2 Wall St., New York, paving in railroad yards, here, to Empire Eng. Co., 216 East Lexington St., Baltimore, Md., $25,000.

Virginia—State Hy. Comn., Richmond, paving 7.99 mi. Hampton Roads, Richmond Highway, between Williamsburg and Toano, 18 ft. concrete, to J. U. Addenbrooks Sons, 125 East 24th St., Norfolk, $209,505. Noted June 29.

N. C., Reidsville—For 16,000 sq.yd. 2 course concrete sidewalks to Elliott & Sons, Spartanburg, S. C., $25,000; 50,000 sq.yd. asphaltic street paving to Atlantic Bitulithic Co., Virginia Ry. & Power Bldg., Richmond, Va., $175,000.

Fla., Mt. Dora—Improving various streets to F. G. Fowler, Mt. Dora, 2,900 sq. ft. resurfacing at $0.95 per sq. ft., 14,040 sq. ft. of 3 in. sheet asphalt $1.28, etc., total about $25,000.

Fla., Orlando—Comrs. Orange Co. clearing and grading 12.6 mi. road from Bithlo to Brevard Co. line, 200,000 cu. yd. excav. to E. W. Parker, Curry Bldg., Tampa, $63,400. Noted May 11.

Alabama—State Hy. Dept., Montgomery, grading and gravel surfacing 4.85 mi. Jackson Highway from Tuscumbia south, Colbert Co., to J. W. Gwin, Jefferson Co. Bank Bldg., Birmingham, $74,382; grading and surfacing with warrenite bitulithic on puzzolan cement concrete, 3.6 mi. Jackson Highway from Tennessee River to Sheffield and Tuscumbia, Colvert Co., to Southern Rds. Co., Amer. Trust Bldg., Birmingham, $88,789. Noted June 15.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 5,528 mi. Sect. "B" Columbus-Millersburg Rd., Franklin Co., asphaltic macadam sandstone base, to M. C. Miller, 314 East Northwood Ave., Columbus, $142,019; 5.221 mi. Sect. "B" Cincinnati-Zanesville Rd., Hamilton Co., plain concrete, to Englewood Constr. Co., Englewood, $244,801. Noted June 29.

O., Akron—See "Railways under Ohio".

O., Akron—Summit Co. grading and paving 3.91 mi. Kent Darrowville Rd. 119, to Kahl Bros. Constr. Co., 13,004 Woodland St., Cleveland, $102,784. Noted June 29.

O., Dayton—Paving Johnson St., 4,500 sq. yd. vitr. brick, to C. Hoolihan, 1406 Riverview St., $23,400.

O., Garfield Heights (Cleveland P. O.)—Paving East 106th St., Parkway Dr. Homeworth and Summerdale Aves., to Enterprise Paving & Constr. Co., 8436 Bway., Cleveland, $42,489. Noted July 6.

Michigan—State Hy. Dept., Lansing, grading and gravel surfacing 3 mi. Assessment Dist. Rd. 84, Saginaw Co., to J. W. Ederer & Co., Saginaw, $35,290.

Michigan—State Hy. Dept., Lansing, grading and surfacing State Trunk Line Rd. 24-19, Isabella Co., 10,655 cu.yd. excav., 37,923 sq.yd. gravel, to Isabella Co. Rd. Comm., Mt. Pleasant, $37,050. Noted May 11.

Michigan—State Hy. Dept., Lansing, grading and gravel surfacing 6½ mi. Assessment Dist. Rd. 8, Bay Co., to G. C. Quackenbush, 203 Grand River Ave., Highland Park, $58,640.

Michigan—State Hy. Dept., Lansing, and gravel surfacing 6½ mi. Assessment Dist. Rd. 48, Saginaw Co., to L. I. Goldberg, East Tawas, $33,759.

Mich., Detroit—To Cleveland Trinidad Paving Co., 402 Hammond Bldg., paving Glynn Court, $36,183, Burlingame Ave. $34,924, Cortland Ave., $13,549, Tuxedo Ave., $35,385; to Detroit Asphalt Paving Co., 20 McGraw Bldg., St. Albertus Pl. $7,313, McGregor Pl. $5,803, Cicotte Ave. $47,229, Duncan Ave. $6,994, Farview Ave. $21,869, Horatio Ave. $18,920, Lakewood Ave. $22,372, Parkwood Ave. $32,525, Seebaldt Ave. $6,685, Mandalay St. $18,369, Otsego Ave. $11,978, Herbert St. $23,019; to G. R. Cooke, 1260 Penobscot Bldg., Arizona Ave. $13,087, Worchester Pl. $21,465, Wanda Ave. $32,367, Davison Ave. $34,170. Noted June 29.

Wisconsin—State Hy. Comn., Madison, Alma-Mondovi Rd., Project 270, Buffalo Co., to H. P. Nelson, Osseo, 4.23 acres clearing $30, 18,793 cu.yd. earth excav. $0.34, 400 cu.yd. loose rock $0.70, 2,014 cu.yd. solid rock $1.15, 1,200 cu.yd. sand surfacing $0.95, 5,348 cu.yd. shale surfacing $0.96, 1,520 cu.yd. channel change $0.45, 58,000 lb. structural steel $0.05, etc., total $43,919.

Wis., Milwaukee—Grade separation, to R. H. Gumz, 831 13th Ave., $122,479. Noted June 15.

Wis., Monroe—Paving various streets with one course rein.-con. and concrete curb and gutter, to J. F. C. Icke, Washington Bldg., Madison, paving $2.39; curb and gutter, $0.77; sidewalks, $0.20. Noted June 29.

Wis., Racine—Racine Co. concrete surfacing, etc., Dales Crossing-Union Grove Rd., to J. Weiher & Son, 878 Franklin Pl., Milwaukee, $52,640. Noted June 22.

Ia., Cedar Rapids—Brick paving 6,270 sq. yd. Ave. A. W., and 5,000 sq.yd. Ave. G. W., to Ford Paving Co., 208 2nd Ave., $21,541 and $16,375 respectively. Noted May 11.

Ia., Hampton—Franklin Co., grading Federal Aid Project 171, 94,417 cu.yd. excav. to J. W. Peed & Son, Ft. Dodge, $0.225 per cu.yd.; 95,675 cu.yd. to J. E. Kughn & Sons, Dows, $0.218; 73,905 lin. ft. 6 in. tile, 16,-765 lin. ft. 8-10 in., to Sheffield Brick and Tile Co., Sheffield, $0.044 for 6 in. $0.07 and $0.128 for 8 and 10 in.; tile labor, to Peterson & Madsen, Coulter, $0.058 per ft. for 6 in., to $0.091 for 10 in.

Ia., Waukon—Paving 50,000 sq.yd. various streets, asphalt on concrete, to Western Constr. Co., Sioux City, $2.78 per sq.yd. Noted May 4.

Minn., Brainerd—Crow Wing Co., grading 8 mi. Brainerd-Midland Highway from Deerwood to Bay Lake, to P. W. Roark, Thief River Falls, $42,579.

Minn., Cloquet—Concrete paving 1,825 ft. Main St. from Arch to 14th St., 65 ft., to Belanger & Lindberg Co., Hibbing, $78,-912. Noted April 27.

Minn., Moorhead—Grading, paving and curbing various streets, 29,843 sq.yd. vitr. brick, rock, concrete and bitulithic, paving 14,605 lin.ft. concrete curb, inlets, castings and headers, to W. E. Kennedy Co., Fargo, N. D., $102,784. Noted June 1.

Minn., Nahnomen—Nahnomen Co., Job 2201, State Rd. 2, 28,944 cu.yd. excav., 29,-000 cu.yd. overhaul, also Job 2101, State Rd. 2, 14,266 cu.yd. excav., 20,656 cu.yd. overhaul, to C. Colwell, Fosston, $12,560, culverts on above projects to P. H. Gramer, Crookston, $831; Job 2202, State Rd. 1, 32,177 cu.yd. excav., 45,184 cu.yd. overhaul, to Rhierson & Nohre, Thief River Falls, $10,349, culverts, to Lyle Culvert & Road Equipment Co., 171 27th Ave. S. E., Minneapolis, $614. Noted June 15.

Minn., St. Paul—Paving 2.52 mi. Edgerton St. from Crosley Rd. to Centerville Rd. station, one course rein.-con. (traprock), to W. Devine, New Brighton. $73,977. Noted June 29.

Nebraska—State Hy. Dept., Lincoln, to Peterson, Shirley & Gunther, W. O. W. Bldg., Omaha, grading Project 91 B, Florence-Blair Rd., Washington Co., $7,974. Project 102 B, Smiley Canyon Rd., Sioux Co., $9,083, Project 180, Columbus East, Platte Co., $28,734, Project 196, Minden-Newark Rd., Kearney Co., $24,691, Project 189, Florence Heights, Douglas Co., $7,875, Project 146 B, Ogallala-Belmar Rd. Keith Co., $24,286, Project 137 A, Springview-Bassett Rd., Rock Co., $9,496, Project 130 B, Sidney-Dalton Rd., Cheyenne Co., $27,761, Project 139 E, Norfolk-Ewing Rd., Holt Co., $13,694, Project 168 A, Stuart-Bassett Rd., Holt Co., $14,034, Project 191 A, Haigler-Sanborn Rd., Dundy Co., $15,030, Project 192, Lutherville-Oshkosh Rd., Garden Co., $8,589, Project 70 B, Stanton-Wisner Wayne Rd., Wayne Co., $29,585, Project 70 A, Stanton-Wisner-Wayne Rd., Stanton Co., $23,294, Project 108, Hay Springs-Merri-

Streets and Roads (Continued)

man Rd., Sheridan Co., $48,444, Project 88 C, Oakland-Crowell Rd., Cuming Co., $7,980, Project 133 A, Nebraska City-Lincoln Rd., Otoe Co., $33,126, Project 184, Elwood-Stockville Rd., Gosper Co., $27,657, Project 186, Kimball-Bushnell Rd., Kimball Co., $21,702, Project 172, West Point-Wisner Rd., Cuming Co., $8,722, Project 139 F, Norfolk-Ewing Rd., Antelope Co., $21,006, Project 168 B, Stuart-Bassett Rd., Rock Co., $55,506, grading and graveling Project 49 F, Oakland-South Sioux City, Dakota Co., $12,940, gravel surfacing Project 143 B, Fremont-Osceola Rd., York Co., $48,683; Lameraux Bros., 416 Arthur Bldg., Omaha, grading Project 195 A, Litchfield-Hazard Rd., Sherman Co., $15,985, Project 181, Ravenna-Sweetwater Rd., Buffalo Co., $13,763; Big Four Constr. Co., Loup City, graveling Project 37, Rockville-Loup City Rd., Sherman Co., $11,038; Phelan Shirley Co., W. O. W. Bldg., Omaha, grading Project 144 A, Hebron-Nelson Rd., Thayer Co., $12,958, Project 49 D, Oakland South Sioux City Rd., Burt Co., $13,247, Project 55 B, Dorchester-Fairmount Rd., Saline Co., $7,141, Project 98 C, Crete-Wilber-Dorchester Rd., Saline Co., $6,091, Project 176, Curtis-Maywood Rd., Frontier Co., $22,122, Project 182, Harbard-Eldorado Rd., Clay Co., $28,297, Project 185, Geneva-Mulligan Rd., Fillmore and Saline Counties, $15,913, Allied Contractors, Inc., 403 Bee Bldg., Omaha, paving with bitulithic Project 20, in Lincoln, Douglas Co., $168,156, grading and graveling Project 170 A, North Platte East, Lincoln Co., $119,583; Western Bridge & Constr. Co., grading Project 139 B, Norfolk-Ewing Rd., Madison Co., $13,875; C. T. Whelan, North Platte, grading Project 188 A, Arnold-Merna Rd., Custer Co., $34,394; Beatty Constr. Co., Blair, concrete paving Project 49 A, Oakland-South Sioux City Rd., Dakota Co., $7,953; Morrill Co., Bd., Bridgeport, gravel surfacing Project 79 A, Bayard-Broadwater Rd., Morrill Co., $34,253; Pioneer Constr. Co., Railway Exch. Bldg., Kansas City, Mo., concrete paving Project 76 A, Alliance-Chadron Rd., Dawes Co., $1,065; Central Bridge & Constr. Co., Wahoo, concrete paving Project 107 C, Greenwood-Chalco Rd., Sarpy Co., $4,567. Noted June 29.

Neb., Lincoln—To Abel Constr. Co., Terminal Bldg., repaving Dist. 83, 18th St. from O to N Sts. $2,400, Dist. 85, Washington St. from 16th to 17th Sts. $835, Dist. 82, 17th St. from O to N Sts. $2,362, above work involves 5,830 sq.yd. asphaltic concrete at $0.96 per sq.yd., paving Dist. 482, Garden St. from 14th to 15th Sts., 1,100 sq.yd. asphaltic concrete $2.35 per sq.yd., 876 lin.ft. combined curb and gutter $0.82, total $3,312; to Cochrane Constr. Co., 1st Natl. Bank Bldg., repaving Dist. 76, L St. from 9th to 16th Sts., 10,374 sq.yd. asphaltic concrete $0.945 per sq.yd., total $9,803, paving Dist. 479, P St. from 24th to 27th Sts., 3,320 sq.yd. asphaltic concrete $2.37, 2,046 lin.ft. combined curb and gutter $0.82, total $9,498; to Roberts Constr. Co., 1st Natl. Bank Bldg., repaving Dist. 84, 9th St. from S to T Sts., 1,464 sq.yd. brick $3.47 per sq.yd., total $5,080.

N. D., Devils Lake—Ramsey Co., grading 13 mi. Federal Aid Project 153, Sect. A, to W. S. Noel, Jamestown, $8,725; Sect. B, to Dunbar & McCoy, Cando, $14,873; culverts to Klauer Mfg. Co., 9th and Washington Sts., Dubuque, Ia., $3,380.

Wyoming—State Highway Dept., Cheyenne, grading, surfacing and building structures on 20.145 mi. Lincoln Highway, Hanna to Walcott, Federal Aid Project 59 B, 24 ft., Carbon Co., to Ames & Braisted, Laramie, $65,029, engrs. est. $88,500; 12.243 mi. Lincoln Highway, Rock River to Albany Co. line, Federal Aid Project 122, 24 ft., Albany Co., to Mudd & Keahey, Torrington, $28,411, engrs. est. $50,000.

Tex., Dallas—Dallas Co. paving with asphalt on macadam 3.3 mi. Westmoreland Rd., 10,000 sq.yd. scarifying and reshaping, 15,000 cu.yd. earth excav., 40 sq.yd. concrete, 4,000 lb. reinforcing, 35,500 sq.yd. bituminous macadam, (7,700 cu.yd. native and 5,920 cu.yd. crushed stone furnished by county), to Wear & Thomas, Rogers, $34,952; grading and surfacing 8 mi. Sachse Rd., 15,000 sq.yd. scarifying and reshaping, 20,000 cu.yd. earth excav., 70,000 sq.yd. bituminous macadam, 40 cu.yd. concrete, 1,000 lb. reinforcing, (15,000 cu. yd. native and 10,500 cu.yd. crushed stone, 3,500 cu.yd. gravel furnished by county), to H. R. Raney Co., Wylie, $54,534.

Tex., Decatur—Wise Co. grading, clay surfacing, etc., 20.7 mi. State Highway 2 from here to Montague Co. line, to Mitchell Constr. Co., Cleburne, and Everheart Bros., Mathis, $58,882. Noted June 29.

—Tex., Ft. Worth—Tarrant Co. grading 15.56 mi. and gravel surfacing 14.87 mi. Arlington-Webb-Britton Rd., to Purvis & Lowrey, Ft. Worth, $73,028; grading and gravel surfacing 14 mi. Polytechnic-Webb Rd., to McCoy & Richards, Arlington, $40,457.

Tex., Marshall—Harrison Co. grading, gravel surfacing, etc., State Highway 8 from here to Panola Co. line, and 10.79 mi. State Highway 8 from here to Marion Co. line, to Cocke & Turner, Marshall, $86,765 and $54,012 respectively. Noted June 29.

Washington—State Hy. Dept., Olympia, grading and grubbing 4 mi. National Park Highway, east from Ethel, Lewis Co., to G. E. Banderet, Tacoma, $34,900. Engrs. est. $35,000.

Wash., Aberdeen—Paving Michigan St. from Heron to Simpson Sts., to Green Eng. Co., Aberdeen, $25,536. Engrs. est. $25,000.

Wash., Seattle—Grading and paving West Marginal Way, to J. Mattson, Thompson Bldg., $273,217. Engrs. est. $272,391. Noted July 6.

California—State Hy. Dept., Sacramento, surfacing 0.35 mi. highway in town of Williams, Colusa Co., to J. A. Costello, Jr., 1083 Shotwell St., San Francisco, 900 ton asphaltic concrete at $9.10 per ton, total $8,190; grading and graveling 3.5 mi. highway between Alto and Belvidere Crossing, Marin Co., to J. A. Modin and M. C. Preston, Byron, 45,000 cu.yd. excav. $0.41, 4,730 cu.yd. gravel surface $2, 262 cu.yd. portland cement concrete (culverts and monuments) $20, etc., total $33,812; grading 16.5 mi. highway between Trinidad and Freshwater Lagoon, Humboldt Co., to Pacific Constr. Co., San Francisco, $439,212; paving 2 mi. highway between El Centro and Imperial, Imperial Co., to J. F. Knapp, Turlock, 36,500 cu.yd. embankment $0.40, 3,920 cu.yd. portland cement concrete pavement $5.60, total $36,552. Noted June 8.

Cal., Bakersfield—Improving streets in Dist. 77, to Kneen & Austin, Santa Monica, $174,539. Noted June 8.

Cal., Modesto—Improving portions of I and 18th Sts., to Standard Paving Co., 1411 9th St., 20,176 sq.ft. grading at $0.05, 19,933 sq.ft. 1½ in. warrenite bitulithic on 2½ in. asphaltic concrete $0.17, 243 sq.ft. concrete gutters $0.20, 160 lin.ft. concrete curb $0.70, etc.

Cal., Oakdale—Improving various streets to A. Teichert & Son, Ochsner Bldg., Sacramento, 175,000 sq.ft. 1½ in. warrenite on 3½ in. bituminous $0.223 per sq. ft., 72,255 sq.ft. grading and rolling $0.02, 2,000 sq.ft. 5 ft. concrete gutter, $1.50, 1,790 sq.ft. 2 ft. concrete gutter $0.50, 840 ft. concrete curb $0.60, 5,020 sq.ft. concrete sidewalk, $0.18, etc. Noted June 8.

Cal., Sacramento—Sacramento Co. will pave 8,900 lin.ft. Sheldon-Slough House Rd., 1,646 cu.yd. concrete, by day labor. $26,368.

Cal., Sacramento—Sacramento Co. paving 7,400 lin.ft. road from Sacramento River to Vorden, to Byrne & Yost, 2512 N St., 2,192 cu.yd. 6 in. concrete at $14.80 per cu.yd., total $32,450.

Cal., San Diego—Paving Rosecrans, Dumas, Poe, Canon and Rogers Sts., to California Constr. Co., 526 Granger Bldg., $85,083. Noted June 8.

Cal., San Jose—Improving 17th St. between Empire and Rosa Sts., to I. Ryder, 5 South 14th St., 6,486 sq.ft. concrete gutter at $0.25 per sq.ft., 4,948 lin.ft. concrete curb $0.62, 3,814 sq.ft. artificial stone walks $0.19, 91,938 sq.ft. 2 in. bithulithic on 3½ in. asphaltic concrete $0.2475, 13,986 sq.ft. paving intersections $0.2485, etc.

Cal., San Rafael—Marin Co. will pave Culloden Ave. from city limits of San Rafael to Cemetery line, 600 cu.yd. excav., 27,146 sq.ft. macadam, by day labor under supervision G. M. Dodge, co. surv.

Cal., Santa Cruz—Santa Cruz Co. improving Moore Hill Rd., et al., 26,670 cu.yd. excav., 550 lin.ft. corrugated metal pipe, 25,700 lb. reinforcing, 265 cu.yd. concrete, etc., to Grant-Smith Co., Balboa Bldg., San Francisco, $28,043.

Cal., Tracy—Improving 11th St., to J. E. Johnston, Savings and Loan Bldg., Stockton, $84,701. Noted July 6.

Ont., Newmarket—P. J. Anderson, town clk., 13,000 sq.yd. bithulithic pavement on cencrete with concrete curbs and gutters, to Warren Bituminous Paving Co., 54 University Ave., Toronto, $60,000. Noted April 27.

Ont., Ottawa—For 2,300 sq.yd. pavement on Breeze Hill Ave. from Beach to Hickory Sts., and 2,400 sq.yd. Sherbrooke St. from Wellington St. to Bethany Rd., to O'Leary's Ltd., Bank Natl. Bldg., $12,000 and $12,240 respectively; 2,700 sq.yd. Renfrew Ave. by day labor, $12,588.

Ont., Pembroke—S. L. Briggs, town clk., 26,600 sq.yd. bithulithic pavement on concrete, with concrete curbs and gutters also 3,000 sq.yd. bituminous penetration with curbs and gutters, to Warren Bituminous Paving Co., 54 University Ave., Toronto, $94,767. Noted June 15.

Ont., Stratford—For 12,000 sq.yd. asphalt pavement on concrete, to Curran & Briggs, 51 Rusholme Park Ave., Toronto, $80,000, concrete curbs, gutter and base, sublet to Malcolm Paving Co., Ontario St.

Ont., Walkerville—Concrete pavement on various streets, to Merlo, Merlo & Ray, Sandwich. Engrs. est. $60,000.

Industrial Works

PROPOSED WORK

Me., Portland—Oakhurst Dairy Co., Forest Ave., plans 2 story, brick and tile dairy, etc., also power plant unit, Forest Ave. $100,000. Architect not announced.

Mass., Lowell—Saco-Lowell Shops, 77 Franklin St., Boston, plan large brick, concrete and steel addition to plant, here. Architect not announced.

Conn., Devon (Milford P. O.)—Connecticut Light and Power Co., West Main St., Waterbury, plans large 1 story power plant on East side of Housatonic River, here. Private plans.

N. Y., Buffalo—Lautz Marble Corp., 861 Main St., plans new factory, Norfolk St. $85,000. Architect not announced.

N. Y, Buffalo—Pratt & Lambert, 79 Tonawanda St., plans addition to varnish factory. $40,000. Private plans.

N. Y., New York—New York Edison Co., 130 East 15th St., having plans prepared by W. Whitehill, archt. and engr., 709 6th Ave., 3 story, 46 x 125 ft., brick and concrete transformer station, plain foundation, 12 Stone St. $90,000.

N. Y., Rochester—Gallagher Motor Co., Inc., plans 72 x 159 ft., brick and steel garage and salesroom, 32 ft. high, Monroe Ave. $50,000. Architect not announced.

Pa., Charleroi—Fox Grocery Co., Charleroi, plans 1 story, 44 x 100 ft. brick garage and repair shop, McKean Ave. $40,000. Architect not selected.

Pa., Johnstown—Walling Co., 518 Washington St., plans 3 story, 75 x 130 ft. rein.-con and brick service and repair shop, Railroad St. $150,000. Private plans.

Pa., New Brighton—R. B. McDanel Co. plans 2 story, 42 x 68 ft. rein.-con. and brick packing house. Architect not announced.

Pa., Pottsville—D. Guinan, Mahoney City, plans 4 story, 60 x 120 ft. garage and repair shop, brick and steel, Harrison and Centre Sts. Engineer not announced.

Va., Newport—Page Power Co., soon takes bids 1,800 hp. light and power plant on Shenandoah River, here. $100,000. A. A. Roudabush, Shenandoah, secy.

Va., Scottsville—Big Bend Power Co. had plans prepared and soon receives bids for hydro-electric plant on James River to develop 100,000 hp. $2,000,000. Amber Eng. Co., Richmond, engrs.

W. Va., Huntington—Consolidated Light, Heat & Power Co., Miller-Ritter Bldg., plans 2 story power house. $90,000. Engineer not announced.

N. Y., Elmira—Elmira Water, Light & R.R. Co., plans artificial gas manufacturing plant, 1,500,000 cu.ft. daily capacity. F. H. Hill, vice pres.

N. C., Scotland Neck—North Carolina State Warehousing System and citizens of Scotland Neck plan large cotton warehouse. Architect not selected.

Fla., Orlando—W. F. Blackman and associates plan ice and cold storage plant. $50,000 to $100,000.

La., Swartz—Palmer Trust Co., Shreveport, plans gasoline plant with 25,000,000 cu.ft. daily capacity, in Quachita Parish. $75,000. Architect not announced.

Tenn., Chattanooga—Dixie Spinning Co. plans 10,000 spindle cotton and yarn mill. $500,000. J. L. Lupton, Pres. Architect not announced.

O., Columbus—W. L. Lillie Co., 233 Gear St., having revised plans prepared by C. Morgan, archt., 233 Gear St. and takes bids in about 6 weeks four 1 story, 100 x 250 ft. buildings for woodworking plant, East Gear St. $200,000.

Industrial Works (Continued)

O., Lima—Toloson Tent & Awning Co. plans factory. $75,000. Architect not announced.

O., Niles—Youngstown Steel Car Co., Niles, and 1609 Wilson Ave., Youngstown, plans addition to plant here. $60,000. Architect not announced.

O., Youngstown—Youngstown Mazda Lamp Co., 617 Williams St., plans 4 story, 97 x 120 ft. addition to factory. $125,000. Architect not announced.

Mich., Wyandotte—J. G. Kastler & Co., archt., Detroit Savings Bank Bldg., Detroit, preparing plans for 2 story, 50 x 150 ft. rein.-con. and brick garage, plain foundation. Owner's name withheld.

Ill., Chicago—E. E. Hall, archt., 123 West Madison St., preparing plans 2 story, 50 x 125 ft. garage, 5712-5714 Ridge Ave. $80,000. Owners name withheld.

Wis., Beloit—P. B. Yates Machine Co., 729 4th St., plans to remodel present powerhouse, and construct addition 1,000 kw. generating unit.

Wis., Hawkins—F. Prochaski, Milan, plans 1 story, 60 x 100 ft., electric light plant, brick, rein.-con. and steel, here. $60,000. Architect not selected.

Wis., Madison—Kennedy Dairy Co., 618 University Ave., plans 1 story, 50 x 75 ft., brick and steel plant, plain foundation, Washington St. $40,000. Architect not selected.

Wis., Milwaukee—Gurda & Gurda, archts. and engrs., 2nd Ave. and Mitchell St., takes bids about July 18, 1 story, 48 x 50 ft., central heating plants, brick and concrete, plain foundation, 10th Ave. and Hayes St., for S. S. Cyril & Methody Congregation, 110 Windlake Ave. $40,000.

Wis., Oshkosh—Winnebago Co. plans 1 and 2 story, 50 x 80 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation. $40,000. Architect not selected.

Wis., Phillips—Kneeland-McClurg Lumber Co. plans 60 x 210 ft. saw mill, brick and steel, plain foundation, to replace one recently destroyed by fire. $200,000. Architect not selected.

Wis., Waunakee—Gripx Mfg. Co., plans 2 story, 75 x 90 ft., brick and steel factory, plain foundation. $50,000. A. Simpson, mgr. Architect not selected .

Minn., Minneapolis—Ives Ice Cream Co., 2nd and University Aves., S. E., plans 3 story, 117 x 117 ft. rein.-con., brick and tile factory addition; also adding third story, to present 41 x 117 ft. building. $75,000. A. H. Ives, pres. C. A. Berger, 401 Phoenix Bldg, archt.

Minn., Minneapolis—Royal Wet Wash Laundry Co., 1401 Plymouth Ave., had plans prepared by Liebenberg, Kapan & Martin, archts., 617 McKnight Bldg., 2 story, 88 x 140 ft. rein.-con. and brick, Plymouth Ave. $45,000. J. B. Greenberg, mgr.

Okla., Ardmore—R. H. Harris & Son, Ada, plans brick manufacturing plant, here, 20,000 brick daily capacity. Private plans.

Okla., Tulsa—Osage Battery Co. plans large factory. Architect not announced.

Okla., Tulsa—Oklahoma Pub. Service Co., Mayo Bldg., plans large addition to power plant. $1,000,000. Sargent & Lundy, West Adams St., Chicago, engrs.

Cal., San Francisco—F. Clark, c/o H. C. Baumann, archt., 251 Kearny St., had plans prepared 1 story, 100 x 100 ft., rein.-con. garage, Divisadero and Grove Sts.

Cal., San Francisco—Collins-Hencke Co., 25 Beale St., had plans prepared by N. W. Sexton, archt., Chronicle Bldg., and soon takes bids 3 story, rein.-con. and brick factory, Folsom St. between 2nd and 3rd Sts. $100,000. Noted March 9.

Cal., San Francisco—J. Pasqualetti, Humboldt Bank Bldg., having plans prepared by Meyer & Johnson, archts., 742 Market St., 2 story, rein.-con. garage, Bush and Franklin Sts. $40,000.

B. C., Ocean Falls—Pacific Mills Ltd., 510 Hastings St. W., Vancouver, plans hydro electric plant here. Cost between $450,000 and $500,000. Engineer not announced.

Ontario—Pure Gasoline Co., 13 King St. W., Toronto, having plans prepared for gasoline stations in Kitchener, Niagara Falls and other points in western part of province. $50,000. Private plans. Noted April 13.

Ont., Brampton—Sturgis Baby Carriage Co., 60 Sumach St., Toronto, having plans prepared by R. W. Hall, archt., 707 Yonge St., Toronto, 2 story, 50 x 100 ft. factory and 20 x 30 ft. boiler house, concrete, brick and steel. $100,000.

Ont., Hamilton—Kanadda Biscuit Co., 185 West Ave. N., had plans prepared by B. H. Prack, archt., 60 Bay St., Toronto, and soon takes bids 2 story, 80 x 400 ft. factory. $400,000. Noted April 20.

Ont., North Bay—Canadian Creostine Co. plans to build and equip plant. Total $1,500,000. A. Moore, ch. engr.

BIDS DESIRED

Conn., Bantam—Fletcher-Thompson, Inc., archts. and engrs., 542 Fairfield Ave., Bridgeport, taking bids 2 story, 50 x 104 ft. rein.-con., brick and steel factory addition, plain foundation, here, for Bantam Ball Bearing Co. $50,000.

Conn., Branford—July 17, by Military Emergency Bd., State Armory, Hartford, 1 story, 85 x 150 ft. rein.-con., brick and steel mechanical building, plain foundation, at State Armory, here. $40,000. Payne & Keefe, Manwaring Bldg., New London, archts. Noted June 22.

Pa., Meadville—Champion Tool Co., Pine St. taking bids 1 and 2 story, 100 x 200 ft. machine shop and 60 x 60 ft. forge shop, brick and steel, South Main St. Private plans.

Pa., Phila.—R. E. White, archt., Pennsylvania Bldg., taking bids 2 story, 62 x 138 ft. rein.-con. and brick factory, plain foundation, Richmond and Tioga Sts., for G. Spruance, 312 North 3rd St. $50,000.

Pa., Pittsburgh—July 15, by W. G. Wilkens Co., archts., Westinghouse Bldg., 3 story, 60 x 79 ft. rein.-con. and brick warehouse, West Carson St., for W. W. Lawrence Co., West Carson St. $150,000.

W. Va., Wheeling—E. B. Franzhiem, archt., 1425 Chapline St., receiving bids 3 story, 40 x 60 ft., brick, steel and terra cotta garage, 15th and Eoff Sts., for Hopkins Motor Co., 15th St. $45,000.

Fla., Miami Beach—July 26, 6,000 ft. 24 in. c.i. force main, 2,700 ft. 24 in., 900 ft. 18 in., 4,000 ft. 15 in., 710 ft. 12 in., 1,800 ft. 10 in., 4,200 ft. 8 in., 2,000 ft. 6 in. terra cotta pipe, $75,000; 50,000 gal. storage tank, 2 centrifugal pumps, each 2,000,000 gal. daily capacity. $30,000. R. M. Davidson, Miami Beach, engr.

O., Cleveland—July 15, by E. McGeorge, archt. and engr., 1900 Euclid Ave., 2 story, 96 x 180 ft., brick, steel and concrete factory and warehouse, East 61st St. north of Euclid Ave., for Cleveland Folding Machine Co., 5200 Euclid Ave. $100,000.

Ill., Chicago—R. Griesser, archt., 64 West Randolph St., receiving bids 2 story, 100 x 193 ft., bakery, rein.-con., brick and steel, 5029 North Western Ave., for Maier-Roedel Baking Co., Inc., 5029 North Western Ave., $160,000.

Ill., Chicago—D. J. Schaffer, archt., 139 North Clark St., receiving bids 1 story, 125 x 125 ft., garage, rein.-con., brick and steel, Division St. near Western Ave. $50,000. Owner's name withheld.

Ill., Forest Park—J. D. Broxham Dairy Co., 2814 West Polk St., Chicago, 2 story, 145 x 175 ft. dairy, rein.-con., brick and steel, Harrison St., here, to B. W. Constr. Co., 720 Cass St., Chicago, $150,000.

Wis., Milwaukee—Pittsburgh Plate Glass Co., 213 Lake St., taking bids 5 story, 86 x 140 ft., storage and laboratory, rein.-con. and brick, plain and wood pile foundation. $100,000. Kirchoff & Rose, 221 Grand Ave., archts.

Wis., Neenah—E. A. Wettengel, archt., 578 Pierce Ave., Appleton, taking bids 1 story, 60 x 120 ft. and 50 x 50 ft., brick and concrete garage, plain foundation, North Commercial St., for Jaeger-Wheeler Co., Neenah. $45,000.

Cal., Pittsburg—California Bean Growers Assn., 120 Battery St., San Francisco, receiving bids 1 story, 80 x 350 ft. frame and corrugated iron warehouse with 5 story, 20 x 40 ft. mill in center, here. $80,000. MacDonald Eng. Co., 149 California St., San Francisco, engrs. Noted June 15.

CONTRACTS AWARDED

Mass., Palmer—D. O. Pease Mfg. Co., 161 Summer St., Worcester, 1 story, 75 x 200 ft. concrete and steel mill, plain foundation, here, to Palmer Constr. Co., Main St. Archts. est. $45,000.

Mass., Pittsfield—Berkshire Woolen Co., Pecks Rd., 3 story, 60 x 104 ft. mill constructed plant, to J. R. Hampson & Co., Inc., Pittsfield, $60,000.

Mass., South Boston (Boston P. O.)—John West Thread Co., 297 Congress St., Boston, 2 story, 60 x 200 ft. brick and steel plant addition, Covington St., to F. G. Rowley Co., Inc., 266 Central Ave., Pawtucket, R. I. Archts. est. $100,000.

N. Y., Brooklyn—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York, housing station, Atlantic Ave. between Utica and Schenectady Aves., here, for Dept. Street Cleaning, to J. Young, Jr., 103 Park Ave., New York, $61,578. Noted July 6.

N. Y., New York—S. M. De Padquale, c/o S. J. Kessler, archt. and engr., 529 Courtlandt St., brick, steel and concrete garage, plain foundation, Webster Ave., by day labor. $125,000.

N. Y., New York—Webster Building Co., c/o S. J. Kessler, archt. and engr., 529 Courtlandt St., 3-story, brick, steel and concrete garage, plain foundation, 172nd St. and Sheridan Ave., by day labor. $175,000.

N. Y., Retsof—Retsof Mining Co., rein.-con. machine shop, to J. W. Cowper Co., Inc., Fidelity Bldg., Buffalo, $225,000.

N. J., Belleville—Thompson Machine Co., 2 story, rein.-con., brick and steel factory, plain foundation, to J. W. Ferguson, Inc., United Bank Bldg., Paterson. Archts. est. $150,000. Noted June 1.

Pa., Charleroi—G. Woodward, general contract for 3 story, 88 x 100 ft. garage, brick and steel, to J. S. Rockwell, Charleroi. Engrs. est. $40,000. Noted June 22.

Pa., Hays—Harbison-Walker Refractories, Farmers Bank Bldg., Pittsburgh, 4 story, 40 x 130 ft. rein.-con., brick and steel storage building, to Pihl & Miller, Wabash Bldg., Pittsburgh. Engrs. est. $50,000.

Pa., New Brighton—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, general contract 1 story, 47 x 135 ft. foundry, to Austin Co., 16116 Euclid Ave., Cleveland, O. Engrs. est. $50,000.

Pa., New Kensington—Premier Baking Co., 3 story, 80 x 99 ft. brick and steel bakery, Stanton Ave., to B. H. Prack, Keystone Bldg., Pittsburgh, $100,000. Noted June 22.

Pa., Trafford—Westinghouse Electric & Mfg. Co., East Pittsburgh, 1 story, 50 x 135 ft. tin shop, to B. H. Prack, Keystone Bldg., Pittsburgh, $40,000. Noted June 22.

W. Va., Peach Creek—Chesapeake & Ohio Ry., 9th and Main Sts., Richmond, Va., 1-story, machine shop, round house and power house, here, to J. E. Nelson & Son, 3240 South Michigan Ave., Chicago, $250,000.

W. Va., Ronceverte—West Penn Power Co., West Penn Bldg., Pittsburgh, 2 story addition to power plant, to J. G. White Eng. Corp., 43 Exchange Pl., New York, $500,000.

W. Va., Wheeling—Warren Auto Trading Co. will build 3 story, 60 x 125 ft. garage and repair shop, brick and steel, by day labor. $50,000.

N. C., Charlotte—Textile Mill Supply Co., North College St., 3 story, 120 x 125 ft., brick and steel warehouse, to E. H. Clement Co., Commercial Bank Bldg., $60,000. Noted May 18.

O., Bellaire—C. L. Dorer Fdry. Co., 1 story, 36 x 60 ft. foundry addition, to Riverside Bridge Co., Martins Ferry.

O., Cleveland—Wilberite Roofing Co., 3700 Brook Park Rd., 1 story, 35 x 130 ft., heating house, steel and concrete, to Van Dorn Iron Wks., East 79th St. and Woodland Ave. Archts. est. $40,000.

O., Dayton—Lowe Bros. Co., 450 East 3rd St., 7 story, 30 x 270 ft. paint mill, rein.-con. and steel, plain foundation, Wayne Ave., to Frank Hill Smith, Inc., Winters Bldg., $175,000.

O., Dover—Reeves Mfg. Co., 1 story, 60 x 80 ft., brick and steel factory and warehouse, plain foundation, to Austin Co., 16112 Euclid Ave., Cleveland. Archts. est. $100,000.

Ind., Indianapolis—R. H. Hassler, Inc., 1335 Naomi St., 2 story, 37 x 120 ft. factory, Naomi St., to Builders Constr. Co., 340 North Meridian St. Archts. est. $40,000.

Ill., Chicago—Natures Rival Co., 306 South Franklin St., 3 story, 133 x 166 ft. factory, ordinary fireproof construction, Irving Park Blvd. and Hermitage Ave., to Salomon-Waterton Co., 230 East Ohio St. Archts. est. $180,000. Noted June 29.

Wis., La Crosse—Trane Co., 2nd St. and Cameron Ave., 1 story, 60 x 90 ft. factory addition, brick and steel, plain foundation, 2nd St., to P. Nelson & Son, Newburg Bldg.; structural steel to J. Torrance & Son, La Crosse. Engrs. est. $40,000.

Wis., Manitowoc—Aluminum Goods Mfg. Co. 1 story, 150 x 360 ft., brick and steel

Industrial Works (Continued)

warehouse, plain foundation, to W. W. Oeflein, Inc., 86 Michigan St., Milwaukee. Engrs. est. $150,000.

Wis., Racine—Wisconsin Gas & Electric Co., 305 6th St., 2 story, 50 x 60 ft., brick, rein.-con. and steel utilities building, plain foundation, to Worden Allen Co., Port Washington Rd., Milwaukee. Engrs. est. $50,000.

Minn., St. Paul—Washington Fdry. Co., Eagle and Washington Sts., 2 story, 22 x 100 ft. and 1 story, 71 x 166 ft. steel and concrete foundry, Eagle St. near Washington St., to F. J. Romer Constr. Co., 190 Ramsey St.

Cal., Oakland—Central Shuey Creamery Co., 599 12th St., 3 story, brick and concrete cannery, West Telegraph Ave. and South 55th St., to B. H. Schmidt, 2237 East 19th St., $62,000.

Cal., Selma—Fresno Tire & Rubber Co., Mattei Bldg., Fresno, brick and timber factory, Block E, here, to W. L. Miller, 149 Abby St., Fresno, $126,000.

Ont., Montrose—Canadian Axolite Co., 2 story, 50 x 100 ft., concrete, brick and steel addition to machine shop, to Robertson Constr. Co., Erie Ave., Niagara Falls. Engrs. est. $50,000.

Ont., Toronto—July 10, by H. H. Couzens, genl. mgr. Toronto Transportation Com., three 1 and 2 story, rein.-con. car barns and brick office building. $300,000. J. B. Carswell, Yonge and Front Sts., engrs.

Buildings

PROPOSED WORK

Conn., Bridgeport—Business—Schnee & Schnee, 1115 Main St., having plans prepared by F. A. Cooper, archt., 1024 Main St., converting present mill into 4 story store and office building. $150,000.

Conn., Bridgeport—School Addition—Bd. Educ. having plans prepared by F. A. Cooper, archt., 1024 Main St., 2 story, brick and steel addition to Sheriden School, Tesiny Ave. $150,000.

Conn., New Haven—High School—Bd. Educ. plans 3 story, brick, steel and concrete, Edgewood Ave. $300,000. C. S. Palmer, 114 Whitney Ave., archt.

N. Y., Buffalo — Church — St. Vincent's Roman Catholic Congregation, c/o A. Hummel, pastor, having plans prepared by Comes, Perry & McMullen, archts., Renshaw Bldg., Pittsburgh, Pa., 1 story, 100 x 160 ft., Eastwood Pl. and Main St. $250,000.

N. Y., Buffalo—Office—N. P. Clement and S. Weed, 39 Linwood Ave., soon take bids 14 story, brick and steel, Main and Genesee Sts. $1,000,00. Architect not announced. Noted June 8.

N. Y., Buffalo—Store and Office—W. K. Jackson, 218-228 Delaware Ave., plans 8 story, modern construction, Delaware Ave. $500,000. Private plans.

N. Y., New York—Bath—Bd. Estimate, Municipal Bldg., plans brick, steel and stone, plain foundation, 134th St. between 5th and Lenox Aves. $200,000. Private plans.

N. Y., New York—School—Bd. Educ., 500 Park Ave., having plans prepared by C. B. J. Snyder, archt. and engr., Concord St., Brooklyn, P. S. 63, 5 story, brick, steel and stone, plain foundation, Franklin Ave. and 168th St., here. $500,000.

N. Y., Solvay (Syracuse P. O.)—Schools—Bd. Educ. takes bids in August new High School $400,000 and Boyd School, $80,000. Former bids rejected. M. L. King, Snow Bldg., Syracuse, archt. Noted June 15.

N. J., Atlantic City—Hotel—Hotel Chelsea, Morris Ave. and Beach, plans 125 x 150 ft., brick, steel and stone addition, plain foundation, South Morris Ave. $3,000,000. Carrere & Hastings, 52 Vanderbilt Ave., New York, archts.

Pa., Greensburg—Home—Comrs. Westmoreland Co., Court House, rejected bids June 12, altering and building addition to county home. $190,000. Burrell & Snyder, Coulter Bldg., archts. Noted June 8.

Pa., Greensburg—Store and Office—Inland Realty Co. having plans prepared by Bartholomew, McCullough & Smith, archts., Coulter Bldg., 5 story 30 x 95 ft. brick addition, Main St. $150,000.

Pa., Pittsburgh—Bank—City Deposit Bank, Fern and Center Aves., rejected bids for addition on Penn and Center Aves. $150,000. Mowbray & Uffinger, 56 Liberty St., New York, archts. Noted April 20.

Pa., Pittsburgh — Store — Kaufmanns Dept. Store, 5th and Smithfield Sts., soon lets contract 1 story, 93 x 118 ft. addition, rein.-con., brick and terra cotta, Smithfield and Diamond Sts. $150,000. B. Janssen, Century Bldg., archt.

Pa., Titusville—Theatre and Store—J. C. McKinney, Titusville, having plans prepared by E. DeRosa, archt., 110 West 40th St., New York City, 1 and 2 story, 40 x 100 ft. and 80 x 100 ft. brick and terra cotta, West Spring St. $150,000.

W. Va., Wheeling—Store and Office—Finance Co. having sketches made by J. R. Anderson, Jr., archt., Wheeling, 4 story, 66 x 128 ft., brick, stone and steel, 14th and Market Sts. $200,000.

N. C., Durham—Hospital—Lincoln Hospital having plans prepared and takes bids in about 50 days, for hospital. $150,000. Milburn-Heister & Co., Union Savings Bank Bldg., Wash., D. C., archts.

N. C., Fayetteville — Bank — National Bank of Fayetteville having plans prepared and takes bids about Sept. 1, 10 or 12 story, steel and concrete. W. G. Rogers, Trust Bldg., Charlotte, archt.

Fla., Lakeland—Hotel—B. M. Pulliam, pres. of new corporation, having plans prepared by F. J. Kennard, archt., 409 Amer. Bank Bldg., Tampa, 8 story, 122 x 122 ft., rein.-con. $415,000.

La., New Orleans—Hotel—L. Jacobs, 802 Perdido St., and D. Dreyfous, having plans prepared by Weiss & Dreyfous, archts., 613 Mason Blanche Bldg., and takes bids between Aug. 15 and Sept. 1, 4 story, 121 x 128 ft. Canal St. between North Rampart and Basin Sts. $150,000.

O., Cleveland—Apartments—Euclid-77th Co., c/o T. C. Minor, archt., 9501 Wade Park Ave., having plans prepared, two 4 story, 44 x 200 ft., brick and steel, 7711 Euclid Ave. $400,000.

O., Cleveland—Commercial and Office—M. B. Scharfeld, Society for Savings Bldg., had plans prepared by Knox & Elliot, archts. and engrs., Engineers Bldg., 12 story, 60 x 75 ft., brick, steel and concrete, East 6th St. and St. Clair Ave. $500,000. Noted April 6.

O., Cleveland—Parcel Post Station—La Roth-Keller Co., c/o G. Keller, 2230 Superior Ave., N. E., having plans prepared by Lehman & Schmitt, archts., Electric Bldg., 3 story, brick, steel and concrete, 131 West St. Clair Ave. $200,000.

O., Martins Ferry—High School—Plans $250,000 bond issue for new high school annex.

O., St. Marys—High School—Plans $160,000 bond issue for new high school, in Memorial Park. Architect not announced.

Mich., Detroit—Apartment—G. Klein, c/o A. Kahn, archt., 1000 Marquette Bldg., had plans prepared for 8 story, 107 x 111 ft. rein.-con., brick and steel, plain foundaiton, Pingree and 2nd Aves.

Mich., Detroit—Apartment—J. I. Weinberg, archt., 401 Congress Bldg., preparing plans 4 story, 80 x 140 ft. Owners name withheld.

Mich., Detroit—Cathedral—Catholic Diocese of Detroit, c/o M. J. Gallagher, 1219 Washington Blvd., having preliminary plans prepared by Maginnis & Walsh, archts., 100 Boylston St., Boston, 2 story, rein.-con., brick and steel, plain foundation, Lasalle Blvd., Webb and Lawrence Aves. $5,000,000.

Ill., Chicago—Office—G. Nimmons & Co., archts., 122 South Michigan St., prepared plans 12 story, 50 x 140 ft., 1416-1418 South Wabash St. $500,000. Owner's name withheld.

Ill., Waukegan — Theatre — Orpheum Theatre Co., 112 South State St., Chicago, having plans prepared by Rapp & Rapp, archts., 190 North State St., Chicago, 3 story, 75 x 200 ft., Water and Genesee Sts., here. $500,000.

Wis., De Forest—High School—Voted $150,000 bonds for 2 story, 60 x 180 ft., brick and rein.-con., plain foundation. Architect not selected.

Wis., Kenosha—Hotel—M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, opens bids about July 17, (Maywood Hotel), 5 story, 66 x 126 ft., brick, concrete and steel, plain foundation, Main St., here, for S. Schwartz, 888 Sheridan Rd., Waukegan, Ill. $150,000. Noted Noted June 29.

Wis., Lancaster—High School—School Bd. soon takes bids 2 story, brick, tile and concrete, plain foundation. $175,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts.

Wis., Madison—Apartment Hotel—Piper Bros. Co., 31 North Pinckney St., plans 7 story, 60 x 200 ft., brick and rein.-con., plain foundation, State St. $200,000. Architect not selected.

Wis., Madison—Depot—Chicago, Milwaukee & St. Paul Ry., c/o E. F. Immley, Agt., West Madison St., plans 75 x 300 ft., brick, steel and rein.-con., plain foundation. $750,000. Architect not selected.

Wis., Madison — Hospital — St. Marys Catholic Hospital, c/o F. W. Huels, chn., 722 South Brooks St., plans 2 and 3 story, 75 x 160 ft., brick, rein.-con. and steel, plain foundation, Brooks St. $150,000. Architect not selected.

Wis., Milwaukee—Apartment—Voelz & Siebert, archts., 373 Bway., takes bids about July 17, 4 story, 132 x 136 ft., brick and concrete, plain foundation, Grand Ave., for Vendome Realty Co., c/o Architects. Noted May 11.

Wis., Milwaukee—Store and Office—M. Tullgren & Sons, archts., 425 East Water St., preparing plans 2 story, brick, tile and concrete, plain foundation, North Ave. $150,000. Owner's name withheld.

Wis., Milwaukee—Business and Office—O. Brachman, 425 East Water St., and T. Saxe, 156 5th St., having revised plans prepared by M. Tullgren & Sons, archts., 425 East Water St., 5 story, 150 x 200 ft., brick, steel and concrete, plain foundation. $400,000.

Wis., Milwaukee—Convent Addition—See "Miscellaneous."

Wis., Oconomowoc—Dormitory, etc.—Redemptorist Fathers having preliminary plans prepared by A. C. Eschweiler, archt., 141 Wisconsin St., Milwaukee, 2 and 3 story dormitory, chapel, class rooms and library, brick, concrete and stone, plain foundation.

Ia., Cedar Falls—School—Bd. Educ. having plans prepared by H. S. Ralston Co., archts., Waterloo, 2 story, rein.-con., brick, tile and stone. $150,000. E. V. W. Johnson, secy.

Minn., Virginia—Hotel—Community Hotel Financing and Building Co., 743 Plymouth Bldg., Minneapolis, having plans prepared by C. W. Farnham, archt., 1040 Lumber Exch. Bldg., Minneapolis, 3 story, rein.-con., brick and tile, here. $300,000.

Cal., Berkeley—Gymnasium—University of California having plans prepared by B. Maybeck, archt., Lick Bldg., San Francisco, for gymnasium to replace structure recently destroyed by fire. $150,000.

Cal., Monterey — Schools — Monterey Union High School Dist., voted $250,000 bonds for schools. N. R. Coulter, 46 Kearny St., San Francisco, and M. A. Dean, Monterey, archts.

Cal., Oakland—High School—Bd. Educ. soon takes bids 2 and 3 story, rein.-con. and tile, 19th Ave. and East 18th St. $700,000. C. W. Dickey, 2149 Bway., archt.

Cal., Oakland — Hospital — Providence Hospital Assn., 26th and Bway., having plans prepared hospital, Webster and Summit Sts. $700,000. Architects name withheld.

Cal., Richmond—Memorial, Hospital and Library—Plan election to vote on $100,000 bonds for memorial building, $50,000 bonds for hospital and grounds, and $25,000 bonds for library addition. H. D. Chapman, city engr.

Cal., San Anselmo—Clubhouse—American Legion, Golden Gate Post 40, San Francisco, having plans prepared by Morrow & Garren, archts., Chronicle Bldg., San Francisco, 2 story, concrete and steel, Turk and Polk Sts., here. $150,000.

Cal., San Francisco—Apartment and Store—S. & G. Gump Realty Co., having plans prepared by M. Latham, archt., 452 Montgomery St., 6 story, rein.-con. and steel, Geary and Jones Sts. $150,000.

Ont., Owen Sound—School—Bd. Educ. having plans prepared by Watt & Blackwell, archts., St. James Chambers, Toronto, 3 story, 16 room, concrete, brick and steel 5th Ave. E. $250,000.

Ont., St. Thomas—Hospital—Hospital Bd. having plans prepared by N. R. Darragh, archt., 430 Talbot St., 3 story, 112 x 129 ft. concrete, brick and steel. $175,000.

Buildings (Continued)

Ont., Toronto—Forestry—University of Toronto, Queens Park, plans brick or stone and steel forestry and botany building, Queens Park. $200,000. Architect not selected.

Ont., Toronto—School and Dormitory—St. Josephs Convent, St. Albans St., having plans prepared by J. P. Hynes, archt., 73 King St. W., 3 story, 106x110 ft. rein.-con., brick, steel and tile. $200,000.

Ont., Weston—School—School Bd. having plans prepared by S. B. Coon & Sons, archts., 4 St. Thomas St., Toronto, 2 story, 10 room, concrete, brick, steel and stone. $160,000.

BIDS DESIRED

Me., Belfast—School—Aug. 5, by City Treasurer, 3 story, brick. $160,000. Kilham, Hopkins & Greely, 9 Park St., Boston, archts. Noted March 16.

Me., Waterville—Hospital—Sisters Hospital, College Ave., taking bids 4 story, granite, brick, steel and concrete, plain foundation, College Ave. $400,000. H. L. Rourke, 525 Hildreth Bldg., Lowell, Mass., archt.

Conn., New Britain—Normal School—July 18, by A. B. Meredith, secy. State Bd. Educ., Hartford, 1 and 2 story rein.-con., brick and steel main structure and 1 story boiler house, Camp St. $700,000. A. S. Kellogg, 89 Franklin St., Boston, engr. Guilbert & Betelle, 546 Broad St., Newark, N. J., archts. This corrects report in May 18 issue.

N. Y., Brooklyn—Schools—July 18, by Bd. Educ., 500 Park Ave., New York, P. S. 161, Crown St. near New York Ave., also P. S. 189, East New York Ave. and Rockaway Parkway, both brick, steel and stone, plain foundation, here. Noted May 18.

N. Y., Corning—Hospital—Corning Hospital Assn., 4 story, brick addition. $175,000. Work will be done by separate contracts. F. H. Dewey & Co., 175 5th Ave., New York, archts. and engrs.

N. Y., New York—Apartment—A. Bricken, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., 12 story, brick, steel and stone, plain foundation. Lexington Ave. and 74th St. $750,000. Work will be done by separate contracts under supervision of architects.

N. Y., New York—Office—July 17, by H. D. Sayer, industrial comr., 124 East 28th St., altering and repairing office buildings. L. F. Pilcher, Albany, state archt.; adv. this issue.

Pa., Erie—High School—Aug. 20, by Bd. Educ., 2 story, 200 x 300 ft. rein.-con. and brick, West Side. $425,000. W. W. Myers, Library Bldg., archt.

Pa., Johnstown—Theatre—Shubert Theatre Co., taking bids, 2 story and balcony, 82 x 135 ft., theatre, Franklin and Vine Sts. $500,000. H. J. Krapp, 114 East 16th St., New York, archt.

Pa., Overbrook—Academy—P. Monaghan, archt., 1218 Chestnut St., taking bids 3 story, 42 x 174 ft. with four 59 x 92 ft. wings, rein.-con., brick and steel, plain foundation, for Academy of Sacred Heart, 1835 Arch St. $500,000.

Pa., Pittsburgh—Synagogue—July 15, by R. J. Friedberg, archt., 1117 Farmers Bank Bldg., 2 story, 80 x 120 ft., St. Clair and Margaretta Sts., for Adath Jashurum Congregation, c/o architect. $150,000. Noted May 4.

Pa., Vandergrift—High School—July 15, by Bd. Educ., 2 story, brick and stone addition to school. $155,000. W. G. Eckles, New Castle, archt. Noted June 22.

Ga., Atlanta—Physic—July 21, by Robert & Co., archts. and engrs., Tuft Bldg., 3 story, 100 x 110 ft., brick, concrete and tile, rock foundation, for Georgia School of Technology. $200,000.

Ga., Brunswick—School—Aug. 2, by C. F. Dryden, secy. Glynn Co. Bd. Educ., 3 story, brick, tile and concrete. $200,000. H. Wallins, 23 Abercorn St., Savannah, archt.

Ga., Dalton—High School—July 18, by F. Manley, chn. Bd. School Comrs., 2 story, 76 x 125 ft. rein.-con., steel and brick, rock foundation. J. J. Baldwin, Anderson, S. C., archt.

O., Cleveland—Church—July 18, by A. E. Skeel, archt., 4500 Euclid Ave., 1 story, 50 x 110 ft., brick, steel and stone, Scranton Rd., for Trinity Evangelical Church, Scranton Rd. and Afken Ave. $150,000.

WATERWORKS—CHILDRESS, TEX.

Following are lowest bids opened by city for waterworks improvements, item 1, including dam, spillway, etc., (A) F. P. McElwrath, Corsicana, (awarded contract); (B) McCall-Moore Eng. Co., Waco; (C) Brooks & Winans, Eastland; item 2, including 9 mi. pump line, pump house, etc., (A) Hamilton Bros., Taylor; (B) Jones Contg. Co., Dallas; (C) Winslett-Eldridge Co., Dallas. The unit bids were as follows:

	A	B	C
240,994.18 cu.yd. earth embankment-Dam	$0.28	$0.29	$0.328
16,766.00 cu.yd. earth excavation—Spillway	.25	.29	.20
7,965.00 cu.yd. earth excavation—Core trench	.35	.34	.40
88.50 cu.yd. 1:2:4 reinforced concrete	30.00	24.50	30.00
2,165.00 cu.yd. 1:2½:5 reinforced concrete	12.75	16.25	14.30
26,893.93 sq.yd. pavement—water slope dam and spillway	1.25	1.45	1.34
53 cast iron manhole steps—intake	.30	.65	1.00
1 24-in. cast iron manhole cover	25.00	40.00	40.00
246.00 lin.ft. 36-in. cast iron pipe, class "B"	16.00	16.40	18.00
1 36-in. sluice gate	615.00	696.00	750.00
4 12-in. sluice gates	100.00	105.00	125.00
1 36-in. x 36 in. x 36 in. T.S.	350.00	400.00	450.00
1 36-in. gate valve	520.00	575.00	600.00
1 36-in. x 12-in. reducer	200.00	265.00	300.00
5 floor stands for sluice gate control	30.00	32.50	40.00
Extended totals	$144,546	$160,432	$162,559

	A	B	C
3,578.6 cu.yd. earth excavation	$0.40	$0.40	$0.40
2,040.0 sq.yd. pavement	1.28	1.50	1.80
30.0 cu.yd. 1:2:4 reinforced concrete	16.00	25.00	25.00
72.0 lin.ft. 12-in. vitrified sewer pipe	2.00	1.25	2.50
4 12-in. ¼ curves vitrified pipe	3.00	3.50	2.50
200.0 lin.ft. 4-in. tile drain	1.50	.90	.75
24,200.0 lin.ft. 14-in. cast iron pipe, Class "L"	3.07	3.04	3.19
7,300.0 lin.ft. 14-in. cast iron pipe, Class "C"	3.47	3.41	3.53
2 14-in. gate valves	111.00	119.00	112.50
1 14-in. x 14-in. x 12-in. T	41.00	44.50	46.80
6 14-in., ¼ curves	27.00	30.00	33.00
2 14-in. Ells	30.00	33.00	37.00
17,440.00 lin.ft. 12-in. cast iron pipe, Class "B"	2.55	2.47	2.54
2 12-in. gate valves incl., 1 box	75.00	83.65	80.00
6 12-in., ¼ curves	20.00	24.00	22.00
1 12-in. Y	49.00	53.00	52.00
1 12-in. ⅛ curve	20.00	23.00	22.00
1 12-in. x 12-in. x 12-in. T	36.00	42.00	37.00
3 12-in. x 12-in. x 6-in. Ts	31.00	36.00	34.00
1 12-in. cast iron plug	5.00	6.00	7.00
20,500.0 lin.ft. 6-in. cast iron pipe, Class "B"	1.03	1.16	1.17
24 fire hydrants	53.00	56.00	55.00
11 6-in. gate valves, incl. boxes	32.00	34.00	31.00
1 6-in. x 6-in. x 6-in. x 12-in. cross	36.00	39.00	50.00
5 6-in. x 6-in. x 6-in. x 12-in. cross	20.00	21.00	21.00
2 6-in., ⅛ curves	8.00	9.00	10.00
24 6-in. x 6-in. x 6-in. Ts	15.00	17.00	17.50
2 8-in. x 8-in. x 6-in. Ts	20.00	22.00	22.00
9 6-in., cast iron pipe plugs	3.00	2.50	1.50
8,900.0 lin.ft. 2-in. wrought iron pipe	.26	.38	.35
6 2-in. ground unions	1.00	2.00	2.50
6 2-in. nipples	.30	.15	2.00
18 2-in. ells	.50	.30	1.00
6 2-in. Ts	.70	.40	1.00
10 2-in. valves	7.50	4.00	5.00
1 10-ft. x 10-ft. brick pump house	135.00	250.00	500.00
1 internal comb. engine and pump comb.	330.00	405.00	550.00
3 10-ft. x 7-ft. circular galvanized storage tanks	135.00	165.00	300.00
41.0 cu.yds. 1:2½:5 concrete	12.00	20.00	25.00
Fence around reservoir (lump sum)		Cost + 15 per cent	Cost + 20 per cent
Extended totals	$177,124	$179,682	$187,003

O., Cleveland—Commercial and Apartment—J. A. Saunders, 11838 Detroit Ave., Lakewood, taking bids 4 story, 67 x 91 ft., brick and timber, plain foundation, Detroit Ave., here. $150,000. A. F. Janowitz, Permanent Bldg., archt.

O., Mentor—High School—July 16, by Bd. Educ., Rural School Dist., 2 story, brick, steel and concrete, plain foundation. $150,000. Miller & Son, Dollar Bank Bldg., Youngstown, archts.

Ind., Ft. Wayne—Hotel—T. Keenan, c/o Anthony Hotel, 128-30 West Berry St., taking bids and opens same about July 15, 15 story, 150 x 200 ft. brick, steel and concrete, plain foundation. $2,000,000. W. B. Vetterhogg, Ft. Wayne, archt. C. C. French, Plymouth Bldg., Cleveland, engr. Noted Feb. 16.

Mich., Hamtramck—School—July 20, by G. J. Haas, archt., 1514 Kresge Bldg., Detroit, 2 story, 80 x 300 ft. rein.-con., brick and steel, plain foundation, for Bd. Educ. $300,000.

Ill., Chicago—Church and office—H. Shaw, archt., 39 South State St., receiving bids 60 x 100 ft. church and 50 x 100 ft. study and office, both 2 story, rein.-con., brick and steel, University Ave. and 57th St., for Hyde Park Christian Disciples of Christ, c/o architect.

Wis., Clinton—High School—July 21, by Bd. Educ. 2 story, 78 x 90 ft., brick, rein.-con. and stone, plain foundation. $150,000. E. Tough, Conklin Bldg., Madison, engr.

Minn., Duluth—Hospital—Sept. 30, by F. A. Cokefair, chn. com., 516 Providence Bldg., 4 story, 140 x 250 ft. rein.-con., brick and steel, 1st St. and 9th Ave. E. $750,000. R. E. Schmidt, Chicago, and German & Jenssen, 411 Exchange Bldg., Duluth, associated archts. and engrs.

N. D., Dickinson—School—July 28, by State Bd. of Administration, Fargo, 3 story, rein.-con., brick, tile and stone, State Normal School Campus, here. $200,000. Keith & Kurke, Fargo, archts.

Cal., Berkeley—Hall—Aug. 2, by Regents of University of California, 2 story, 70 x 186 ft., rein.-con. J. G. Howard, 1st Natl. Bank Bldg., San Francisco, archt.

Cal., Berkeley—Mechanics—July 21, by Regents of University of California, 1 story, 40 x 80 ft., rein.-con. J. G. Howard, 1st Natl. Bank Bldg., San Francisco, archt.

Cal., San Francisco—Apartment—C. A. Meussdorffer, archt., Humboldt Bank Bldg., receiving bids 11 story, rein.-con., southwest Hyde and Greenwich Sts., for O. B. Martin, c/o architect. Noted May 11.

Cal., San Francisco—Store and Apartment—MacDonald & Couchot, archts., 110 Sutter St., receiving bids 10 story, rein.-con., Sutter St. near Taylor St., for G. D. Smith, 735 Taylor St. $375,000.

Cal., Stockton—School—Bd. Educ. receiving bids 13 room school, Burkett Acres. $150,000. F. E. Warner, Belding Bldg., Stockton, archt. Noted June 22.

BIDS RECEIVED

N. Y., Elmira—High School—Bd. Educ., Junior-Senior High School, 3 story, brick, on south side, general contract from Felton Constr. Co., Buffalo, $377,645 plus $7,539 for water-proofing boiler room, Drummond-Miller Co., 4500 Euclid Ave., Cleveland, O., $418,960 plus $8,420, Tifft Constr. Co., Iroquois Bldg., Buffalo, $654,472, plus $4,950; ventilating and heating work from

Buildings (Continued)

Globe Automatic Sprinkler Co., 2035 Washington St., Phila., $53,700; gas fixtures and vacuum cleaning apparatus, from Ellett Stempfle Co., 112 Lake St., $29,744. Noted March 22.

N. Y., Elmira—Hospital—St. Josephs Hospital, 555 East Market St., opened bids July 1, 5 story, 80 x 140 ft., brick annex, (general contract), from G. A. Zimmerman Corp., 18 East 41st St., New York, $211,713; Pulford Dempsey Constr. Co., 317 Penn Ave., $223,224; E. C. Brown Co., New York, $242,690. Noted March 23.

N. Y., New York—School—Bd. Educ., 500 Park Ave., opened bids July 5, P. S. 130, 2nd portion, brick, steel and stone, plain foundation, Hester and Baxter Sts., from Concord Constr. Co., 476 Seneca St., Brooklyn, $218,800; P. J. Brennan & Son, 624 Madison Ave., $236,600; T. A. Clarke Co., 122 Livingston St., Brooklyn, $237,300. Noted June 29.

N. Y., New York—School—Bd. Educ., 500 Park Ave., opened bids July 6, additions to and alterations in P. S. 57, brick, steel and stone, plain foundation, East 114th St. near 3rd Ave., from Frymier & Hanna, 25 West 45th St., $264,539; E. Diebitsch, 383 Madison Ave., $274,940; G. F. Driscoll Co., 115 Schermerhorn St., Brooklyn, $276,000. Noted June 29.

Pa., Phila.—Home—F. H. Caven, dir. pub. wks., opened bids June 29, 2 story, 38 x 93 ft. with two 37 x 88 ft. wings, brick and steel, plain foundation, 34th and Pine Sts., from J. B. Kelly Co., 2313 Walnut St., $172,976; G. H. Evans, 109 North 13th St., $183,538, Wark Co., Broad and Walnut Sts., $197,650. Noted June 22.

O., Cleveland—High School—Bd. Educ., East 6th St. and Rockwell Ave., opened bids July 3, 3 story, 40 room, rein.-con., brick and steel addition, West 93rd St. and Williard Ave., general contract, from Drummond-Miller Co., 4500 Euclid Ave., $652,000, W. Moore Co., 1276 West 4th St., $695,990; heating from Warden & Leese, Prospect Ave., Cleveland, $130,697. Noted June 15.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., opened bids 2 story, 151 x 205 ft., rein.-con., brick and steel, plain foundation, Brooklyn Ave., from F. H. Goddard, 2130 Franklin St., $295,500; G. Worswick, 410 Hodges Bldg., $298,400; Corrick Bros., 507 Owens Bldg., $299,878. Noted July 6.

Minn., International Falls—High School—F. E. Patterson, clk. Bd. Educ., opened bids July 6, 2 story, 100 x 250 ft. rein.-con., brick, tile and stone, (general contract) from Evenson & Utterberg, 550 Builders Exch. Bldg., Minneapolis, $177,950; J. and W. A. Elliott, 906 Lumber Exch. Bldg., Minneapolis, $188,600; J. C. Nelson & Son, 915 Bway., N. E., Minneapolis, $191,800. Noted June 22.

Cal., Berkeley—Bank—Federal Lang Bank, 2 story, rein.-con., Fulton St. opposite Kittredge St., from Lawton & Vezey, 357 12th St., Oakland, $134,900. Noted May 4.

N. B., St. John—School—A. G. Leavitt, secy. School Trustees, opened bids June 30, 2 story, 130 x 142 ft., brick, West St. John, from H. O. Clark, St. John, $151,585; Parsons-Ed Co., Moncton, $158,559; B. Mooney & Sons, St. John, $159,535. Noted June 22.

CONTRACTS AWARDED

Mass., Belchertown—Dormitories and Service—Dept. Mental Diseases, State House, Boston, two 2 story, brick and steel dormitories, and brick and steel service building, State Colony Group, here, to M I. O'Connor, 84 Main St., Northampton. Archts. est. $250,000.

Mass., Fitchburg—School—School Dept., 3 story, brick and steel, plain foundation, Academy and Elm Sts., to C. H. Cunningham & Sons Co., 23 Central Ave., Lynn. Archts. est. $400,000. Noted Oct. 27.

Mass., Springfield—Store, Office and Apartment—I. Richmond, 4 story, brick and concrete, plain foundation, Main and Ferry Sts., to Meyer Constr. Co., 318 Main St. Archts. est. $250,000.

Conn., Danbury—Theatre, etc.—Taylor Opera House, 190 Main St., 2 story, 78 x 105 ft. with 20 x 60 ft. ell, brick and steel, to L. S. Sweeney, 26 Montgomery St., and R. C. Read & Son, 12 Harmony St. Archts. est. $175,000.

Conn., New Haven—Forestry School—Yale University, 3 story, 100 x 150 ft. stone, brick and steel, Prospect St., to Casper Ranger Constr. Co., 20 Bond St., Holyoke, Mass. Archts. est. $300,000. Noted May 25.

Conn., New Haven—Hall of Medicine—Yale University, 3 story, brick, concrete, stone and steel, plain foundation, Cedar and Broad Sts., to Thompson-Starrett Co., 51 Wall St., New York. Archts. est. $1,320,000. Noted Jan. 12.

Conn., Newington—Home—Connecticut Childrens Aid Society, 904 Main St., Hartford, 1 and 2 story, brick and steel, group for new Newington Home for Crippled Children, to Bartlett-Brainerd Co., 252 Asylum St., Hartford. Archts. est. $300,000. Noted May 11.

Pa., McKeesport—Synagogue—Benai Israel Congregation, general contract 2 story, 65 x 124 ft., to A. Wishart & Sons Co., McKeesport. Archts. est. $150,000.

Pa., Sewickley—Library—H. D. Gilchrist, archt., Conestoga Bldg., Pittsburgh, "Clause Library," 1 story, 82 x 87 ft., Thorn and Broad Sts., to J. H. Fetterman, Park Bldg., Pittsburgh, for Boro. Archts. est. $150,000. Noted April 27.

Md., Baltimore—Bank and Office—Natl. Bank of Baltimore, 3 story, brick, steel and stone addition, St. Paul St., to F. T. Ley, 19 West 44th St., New York. Archts. est. $200,000.

Md., Cumberland—School—Bd. Educ., 1 story, 200 x 200 ft., Cumberland Heights, to J. A. Powell, Cumberland. Archts. est. $150,000.

D. C., Wash.—Hotel—A. E. Walker, Southern Bldg., 8 and 11 story, 140 x 153 x 455 ft. hotel, Connecticut Ave. and De Sales St., to Longacre Eng. and Constr. Co., 46th St. and 4th Ave., New York, about $5,000,000; excavation to W. F. Brenizer Co., 101 New York Ave., N. E., $300,000. Noted April 27.

W. Va., Bluefield—Hotel—Cole Realty Co., 12 story, 50 x 175 ft., Scott and Federal Sts., to C. W. Hancock & Sons, Lynchburg, Va., $625,000. This corrects report June 15 issue.

O., Alliance—Church—First Christian Church, 1 story, 60 x 93 ft., brick, steel and stone, plain foundation, to V. B. Silver, Alliance. Archts. est. $150,000.

O., Cleveland—Bank and Office—Seventy-Eight-Twenty-Nine-Euclid Co., c/o Dennison & Hirons, archts., 806 Sincere Bldg., 8 story, 75 x 190 ft., brick, steel and concrete, East 79th St. and Euclid Ave., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $300,000.

O., Grandview Heights (Columbus P. O.) High School—Bd. Educ. 2 story, 150 x 175 ft., brick and concrete, to E. H. Latham & Co., 60 East Broad St., Columbus, $164,095. Noted June 1.

O., Granville—Hotel—J. S. Jones, 2 story, brick, concrete and stone, Main St., to be known as Granville Inn, to Taylor & Linn, 5th and Main Sts., Zanesville, $98,000. Noted May 25.

O., Ironton—Bank and Office—First Natl. Bank, 6 story, 100 x 120 ft., brick, concrete and terra cotta, Main St., to Taylor & Linn., 5th and Main Sts., Zanesville, $252,000. Noted May 25.

O., Westerville—High School—Bd. Educ., 2 story, 140 x 140 ft., brick and concrete, to D. W. McGrath & Sons, 255 East Broad St., Columbus, $114,800. Noted June 8.

Ill., Chicago—Sales—Buick Motor Co., 2031 Calumet Ave., 2 story, 101 x 208 ft., rein.-con., brick and steel, 2021-29 Calumet Ave., to Wells Bros. Constr. Co., 53 West Jackson Blvd. Archts. est. $150,000.

Ill., Chicago Heights—Hotel and Store—C. H. Thomas, c/o Cannedy-Otto Mfg. Co., East End Ave., 6 story, 70 x 122 ft. ordinary fireproof construction, 1651 Halsted St., to Chicago Heights Constr. Co., 1533 West End Ave. Archts. est. $250,000. Noted April 20.

Wis., Delavan—High School—Bd. Educ., general contract, 2 story, 60 x 110 ft., brick, rein.-con. and stone, plain foundation, to Hayes & Langdon, 325 Hayes Blk., Janesville. Engrs. est. $150,000.

Wis., Rhinelander—Hospital—St. Marys Hospital, 3 story, 48 x 86 ft., brick and concrete addition, plain foundation, to Hutter Constr. Co., 128 Western Ave., Fond du Lac. Engrs. est. $150,000. Noted June 15.

Wis., Stevens Point—High School—School Bd., 2 story, (1st unit), brick, plain foundation, to Immel Constr. Co., 200 North Main St., Fond du Lac, $124,483. Noted June 29.

Wyo., Worland—Reformatory—State Bd. Charities, Cheyenne, 3 story, 200 x 300 ft., brick and steel, on State Industrial Farm, here, to Larsen & Jorgenson, Casper, $173,729. Noted June 8.

Tex., Dallas—Film Exchange—Finn & Dunn, archts., Houston, 4 story, rein.-con., here, to G. W. Hewitt, Slaughter Bldg. Engrs. est. $250,000.

Tex., Dallas—Hospital—Hella Temple, 400 South Harwood St., rein.-con. hospital, to Munn Constr. Co., Southwestern Life Bldg. Engrs. est. $250,000.

Cal., Oakland—Hospital—Fabiola Hospital Assn., Moss St. and Bway., 4 story, rein.-con. annex, Moss St. and Bway., to P. J. Walker Co., Monadnock Bldg., San Francisco, $200,000.

Cal., Sacramento—Office and Store—California State Life Insurance Co., Forum Bldg., 10 story, 100 x 100 ft., granite and terra cotta, 10th and J. Sts., to Lindgren Co., Monadnock Bldg., San Francisco, $1,000,000, percentage basis. Noted July 6.

Ont., Brantford—School—Bd. Educ., general contract 2 story, 76 x 140 ft. concrete, brick and steel, Grand and St. George Sts., to P. H. Secord & Sons Constr. Co., 133 Nelson St., $105,376.

Ont., Toronto—Office—Professional Offices, Ltd., 86 Bloor St. W., general contract 6 story, 51 x 112 ft. concrete, brick, steel, tile and stone, Bloor St. W., to H. A. Johnston, 412 Lake Front Ave. Archts. est. $200,000.

Bahamas-Nassau—Hotel—Munson Steamship Line, Munson Bldg., 67 Wall St., New York, brick, steel and stone plain foundation, here, to Purdy & Henderson, 45 East 17th St., New York. Archts. est. $1,000,000.

Federal Government Work

PROPOSED WORK

Cal., Mare Island—Wharf—Spec. 4688—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans oil wharf, here.

H. T., Pearl Harbor—Pier—Spec. 4687—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans submarine base pier, here.

BIDS DESIRED

N. J., Camden—Dredging—Aug. 7 at Office U. S. Engineer, 815 Witherspoon Bldg., Phila., Pa., dredging in Delaware River, here; adv. this issue.

Va., Hampton Roads—Equipment—Spec. 4667—Bureau Yards & Docks, Navy Dept., Wash., D. C., receiving bids for coal and ash handling equipment, here.

Va., Hampton Roads—Heating Plant—Spec. 4629—Bureau Yards & Docks, Navy Dept., Wash., D. C., receiving bids for heating plant building, here. Noted May 4.

Va., Norfolk—Hospital—July 31 by Treas. Dept., Wash., D. C., additional wing to main hospital building of U. S. Pub. Health Service Hospital, Tanner's Creek, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Fla., Key West—Distilling Plant—Spec. 4546—Aug. 2 by Bureau Yards & Docks, Navy Dept., Wash., D. C., distilling plant, here. L. E. Gregory, ch. of Bureau; adv. this issue.

Tenn., Memphis—Levee Work—July 20 at Office Mississippi River Comn., 1st and 2nd Dists., Customhouse, for 690,000 cu.yd earthwork in White River Levee Dist.; adv. this issue.

Tenn., Memphis—Wire Mesh, etc.—July 25 at Office Mississippi River Comn., 1st and 2nd Dists., Customhouse, furnishing wire mesh and machine bolts; adv. this issue.

Wyo., Riverton—Radial Gates, etc.—Aug. 18 at Office U. S. Recl. Service, Denver, Col., furnishing radial gates, radial gate hoists, geared hoists, etc., for Riverton Project. A. P. Davis, dir.; adv. this issue.

Cal., Mare Island—Circulating Loop—Spec. 4684—Bureau Yards & Docks, Navy Dept., Wash., D. C., receiving bids for circulating loop in central power plant, here. Noted July 6.

Cal., Petaluma—Dredging—July 22 at Office U. S. Engineer, Custom House, San Francico, dredging in Petaluma Creek, 445,000 cu.yd., place measurement.

Federal Government Work (Continued)

BIDS RECEIVED

Ky., Vanceburg—Dam—U. S. Engineer, 2nd Dist., Cincinnati, O., opened bids June 19, Dam 32, Ohio River near here, from Natl. Contr. Co., Citizens Bank Bldg., Evansville, Ind., $1,218,040; Dravo Constr. Co., Diamond Bldg., Pittsburgh, Pa., $1,224,867. Noted May 25.

O., Chilo—Dam—U. S. Engineer, 405 Custom House, Cincinnati, O., opened bids June 19, Dam 34, Ohio River, near here, from Natl. Contr. Co., Citizens Bank Bldg., Evansville, Ind., $1,385,147; Dravo Constr. Co., Diamond Bldg., Pittsburgh, Pa., $1,627,464. Noted May 25.

Mont., Malta—Drainage—U. S. Recl. Serv., Malta, opened bids June 28, structures on Nelson Reservoir Canal and Vandalia Canal lateral and wastewater ditches, from Ditty, Schultz & Sigvardt, Lewiston, $27,796. Noted May 18.

CONTRACTS AWARDED

Pa., Hoboken—Hangars—Director of Air Service, Munitions Bldg., Wash., D. C., 2 portable aeroplane hangars, each to accommodate 20 airplanes, here, to W. S. Rae, Oliver Bldg., Pittsburgh, $23,000.

Pa., Phila.—Drydock Approach—Spec. 4681—Bureau Yards & Docks, Navy Dept., Wash., D. C., drydock approach, here, to McLean Contg. Co., Fidelity Bldg., Baltimore, Md., $16,500 (150 days).

D. C., Wash. — School — Constructing Quartermaster, 2306 Munitions Bldg., 19th and B Sts., Army Medical School at Walter Reed Hospital, here, to Boyle-Robertson, Evans Bldg., $431,557 (300 days). Noted July 6.

D. C., Wash.—Trestle and Bins—Dist. Comrs., 509 Dist. Bldg., trestle and bins, to A. H. Rogers, Colorado Bldg., $10,715.

O., Cincinnati—Bear Trap Leaves—U. S. Engineer, Cincinnati, bear trap leaves for Dams 36 and 38 in Ohio River, to Independent Bridge Co., May Bldg., Pittsburgh, Pa., $89,708.

Mo., Jefferson Barracks — Hospital — Treas. Dept., Wash., D. C., construction U. S. Veterans Hospital, here, to J. Stewart & Co., Inc., 30 Church St., New York, $779,350. Noted July 6.

H. T., Hilo—Radio Towers—Spec. 4666—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio towers, here, to C. W. Will, Hilo, $30,986.

Miscellaneous

PROPOSED WORK

Baseball Park and Grandstand—Buffalo, N. Y.—Buffalo Baseball Club, 101 East Ferry St., having preliminary plans prepared by Osborn Eng. Co., archts. and engrs., 2848 Prospect Ave., Cleveland, O., ball park and 2 story, brick, concrete and steel grandstand. $500,000.

Park—Geneva, N. Y.—Plans $25,000 bond issue for 2 mi. park along Seneca Lake front. Engineer not announced.

Jetties—New Jersey—Asbury Park, Belmar, Long Branch and Longport plan jetties. $300,000. Address State Commerce & Navigation Dept., Trenton. B. F. Cresson, State House, Trenton, engr.

Retaining Wall—Trenton, N. J.—Plans rein.-con. retaining wall with appurtenances along John Fitch Way from municipal dock to Delaware River bridge. $25,000. A. C. Gregory, City Hall, engr.

City Annexation—Norfolk, Va.—City plans annexation of various Norfolk Co. sections incl. towns of Ocean View, Willoughby Beach, Tanners Creek, Chesterfield Heights and Fairmount Park. Plans incl. construction of three joint fire and police stations, several schools and miscellaneous improvements. $200,000. C. E. Ashburner, city mgr.

Park Improvements—Norfolk, Va.—Having plans prepared improving Lee Park on Smiths Creek, incl. walks, bulkhead and concrete landing wharf. $49,770. C. E. Ashburner, city mgr.

Summer Resort—Franklin, N. C.—E. S. Hunnicutt, Franklin, Va., having plans prepared and soon takes bids developing summer resort, including artificial lake, lighting installation, roads and sidewalks. W. N. Wills, Spartanburg, S. C., engr.

Gas Line—Sterlington, La.—Ouachita Natural Gas Co., of Sterlington and Monroe, plans 10 mi. of 6 in. pipe line from Swartz Field to gasoline absorption plant here. Cost to exceed $25,000.

Tipple—Typo, Ky.—Mains-Haskins Coal Co., Blue Diamond, plans reconstructing coal tipple, here. $45,000 to $50,000. A. Haskins, genl. mgr. Architect not announced.

Foundation—Milwaukee, Wis.—Brust & Phillip, archts., 405 Bway., takes bids about July 17, plain foundation for 4 story, 150 x 150 ft., L. shaped, addition to convent, brick and concrete, Greenfield Ave., for St. Josephs Convent, 575 Layton Blvd., $175,000.

Swimming Pool—Sheboygan, Wis.—Making plans tile and steel swimming pool in high school. $40,000. J. G. Waloord, supt. schools. Childs-Smith, Chicago, engrs.

Amusement Park—Wauwatosa, Wis.—Castalia Gardens, Inc., c/o P. J. Schultheis, 323 M. & M. Bank Bdg., Milwaukee, making preliminary plans amusement park in Castalia Park, incl. buildings, chutes, swimming pool, Ferris wheel, water supply, etc.

Drilling Wells—Archer City, Tex.—C. A. Everts, Kemp Hotel, Wichita Falls, plans drilling test wells for oil and gas, near east central line of Archer Co., where 2,000 acres are under lease for this purpose. $25,000.

Tanks—Galveston, Tex.—Galveston Gas Co. plans to expend $125,000 on plant improvements, incl. 750,000 cu.ft. gas storage tank and 2,100,000 gal. water storage tank. P. E. Nicholls, Genl. Mgr.

Transmission Line—Red Rock, Okla.—Had plans prepared transmission line. $25,000. J. D. Bonford & Co., Enid, engrs.

Transmission Line—Keyes, Cal.—Turlock and Modesto Irrigation Dists., plan transmission line from Don Pedro Project to Keyes. Modesto Dist. has $298,000 in unsold bonds to build the line, purchase transformers, etc. P. Jones, ch. engr. for Modesto Dist. R. V. Meikle, ch. engr. for Turlock Dist.

Playgrounds and Swimming Tank—Richmond, Cal.—Plan election to vote on $50,000 bonds for playgrounds and $40,000 bonds for swimming tank. H. D. Chapman, city engr.

Transmission Line—Cornwall, Ont.—W. W. Beach, Iroquois, granted franchise by united counties of Stormont, Dundas and Glengarry, to use highways in 3 counties for transmission line, incl. poles, towers, etc.

Stadium—Ottawa, Ont.—Stadium of Ottawa, Ltd., having plans prepared by Millson & Burgess, archts., 209 Sparks St., 2 story, 320 x 410 ft. concrete, brick and steel, King and York Sts. $500,000.

Race Track, etc.—Port Credit, Ont.—Belleville Driving & Athletic Assn., 301 Bank of Hamilton Bldg., Toronto, having plans prepared by J. M. Jeffrey, archt., Confederation Life Bldg., Toronto, race track, steel grand stand, concrete and timber stables, etc., Hamilton Highway. $250,000.

BIDS DESIRED

Asphaltic Paving Cement — New York, N. Y.—July 20, by J. Miller, pres. Manhattan Boro. Municipal Bldg., furnishing and delivering 500 ton asphaltic paving cement.

Frogs, Switches, etc.—New York, N. Y.—July 25, by Transit Comn., 49 Lafayette St., installing frogs, switches, tracks and bumping posts in yard near Jerome Ave and Mosholu Parkway, Bronx Boro, Jerome Ave. Line, Route 16; constructing additional approach track to Lenox Ave and 148th St. Yard; making changes in steel work at easterly approach to Queensboro Plaza station, Routes 36 and 37, Sect. 1, Boro of Queens, Agreement "BZ."

Lumber, etc.—New York, N. Y.—July 21, by Bd. Purch., Municipal Bldg., furnishing and delivering creosoted and plain yellow pine lumber also granite and wood paving blocks, to Dept. Plant & Structures. G. A. Whalen, comr.

Engines and D. C. Generators—Rome, N. Y.—Aug. 7, by C. J. Severance, pres. Bd. Mgrs., State School for Mental Defectives, Rome, for engines and d.c. generators in state school here. L. F. Pilcher, Albany, state archt.; adv. this issue.

Fabricated Steel Work—Pittsburgh, Pa.—July 17, by C. M. Yohe, purch. agt. Pittsburgh & Lake Erie R.R., Smithfield St., for 1,625 ton fabricated steel work.

Paving Brick—Washington, Pa.—July 31, by Town Council, 700,000 paving brick. J. F. Curran, pres.; adv. this issue.

Fabricated Steel—Baltimore, Md.—Baltimore & Ohio R.R. in market for about 400 ton fabricated steel work, to be used in bridges. W. S. Galloway, purch. agt.

Pier—Sarasota, Fla.—July 24, 850 ft. recreation pier, 100,000 cu.yd. excav. and 1,700 lin.ft. rein.-con. seawalls. $75,000. L. Pickett, comr. pub. wks.

Fill—Tampa, Fla.—July 26, 40,000 cu.yd. earth fill on estuary project. $25,000. R. D. Martin, Tampa, engr.

Grand Stand—Detroit, Mich.—July 20, by Osborn Eng. Co., engrs., 2848 Prospect Ave., Cleveland, 1 story, concrete and steel top addition, Navin Field, for Detroit Base Ball Club. $200,000. F. Navin, pres.

Asphalt Filer—Tomah, Wis.—C. F. Larson taking bids 1 carload, more or less, asphalt filler for brick binder.

Foundation—Minneapolis, Minn.—Aug. 15, by MacPhail School of Music and Dramatic Art, 804 Nicollet Ave., foundation for 4 story, 50 x 165 ft. rein.-con., brick and tile, LaSalle Ave. and 12th St. $225,000. W. MacPhail, pres. Magney & Tusler, 126 South 9th St., archts. Noted Aug. 4 under "Buildings."

Paving Materials — St. Paul, Minn. — July 17, by H. W. Austin, city purch. agt., materials for paving Hague Ave. from Lexington to Syndicate Aves., 1,235 bbl. portland cement, 960 cu.yd. crushed rock, 1,149 cu.yd. screened sand, 104 ton asphalt, 104 ton limestone dust, 276 cu.yd. binder stone, etc. O. Claussen, city engr.

BIDS RECEIVED

Bituminous Road Surfacing Material—New York, N. Y.—W. J. Flynn, acting pres. Bronx Boro, opened bids July 6, furnishing and delivering 35,000 gal. bituminous road surfacing material, from F. J. Lewis Mfg. Co., 177th St. and Ferris Ave., $0.1575 per gal.; Barrett Co., 40 Rector St., $0.168. Noted June 29.

CONTRACTS AWARDED

Underground Fire Alarm System—Brooklyn, N. Y.—T. J. Drennan, Fire Comr., Municipal Bldg., New York, constructing portion of underground fire alarm system, here, to Crocker Natl. Fire Prevention Eng. Co., 22 West 30th St., New York, $52,967. Noted July 6.

Heating Plant—Niagara Falls, N. Y.—Bd. Educ. installing and furnishing new heating plant for high school, will also be used for heating junior high school, to Matthews Plumbing & Heating Co., 2107 Main St., $73,225.

Gas Mains—Rochester, N. Y.—Rochester Gas & Electric Co., Clinton Ave., N., will extend gas mains into Sea Breeze Sect. near here, involving 43,000 ft. c.i. pipe, by day labor. $75,000. Noted May 18.

Dock, etc.—Troy, N. Y.—Harbor & Dock Comn., City Hall, constructing dock wall also improving and regulating river and dock front, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, $582,795. Noted June 1.

Pier—Norfolk, Va.—Chesapeake & Ohio R.R., Brooke Ave., 52 x 450 ft., rein.-con. and steel pier, foot Brooke Ave., to T. Nuckols Co., 7th and Duval Sts., Richmond. Engrs. est. $125,000.

Jaw Crusher and Road Roller—Florida—State Hy. Dept., Tallahassee, climas jaw crusher and 10 ton Monarch road roller, to Good Roads Mchy. Co., 567 Whitehall St., Atlanta, Ga., $3,350 and $4,400 respectively. Noted May 25.

Terminal Improvements — Vicksburg, Miss.—Mississippi Warrior Waterways, St. Louis, Mo., grading and laying 6,000 ft. track, driving, capping and decking 1,400 ft. incline trestle, driving 6 sets cluster mooring piles, building cradle and repairing terminal barge, to Reid & Lowe, Brown-Marx Bldg., Birmingham, Ala., $170,000; driving piling $0.86 per ft. out of water, $1.25 per ft. under water.

Road Oil—Lake Mills, Wis.—Soon takes bids 15,000 gal., more or less road oil for streets, probably asphaltic. Private plans. N. U. Falk, clk.

Steel Tram—Racine, Wis.—Wisconsin Gas & Electric Co., 305 6th St., steel tram for mono rail hoist, will require 150 ton steel, to Worden-Allen Co., Port Washington Rd., Milwaukee. Noted June 15.

SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate:
40 Cents a Line an Insertion

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ADVERTISEMENTS ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE.

OFFICIAL PROPOSALS

Bids: July 18.

Water Supply for Fire Protection

Raybrook, N. Y.

Under the provisions of Chapter 106 of the Laws of 1922 sealed proposals for the construction and instalation of additions and alterations to the water supply of the New York State Hospital for Incipient Tuberculosis at Raybrook, N. Y., including intake pipes, pumps, force mains, hydrants, hydrant houses, fire hose and appurtenances, will be received by the Board of Trustees of said State Hospital at the office of the State Engineer and Surveyor, Telephone Building, Albany, N. Y., until 12 o'clock noon (Eastern standard time) on Tuesday, July 18, 1922, when they will be publicly opened and read.

Each proposal must be addressed to the Board of Trustees of the New York State Hospital for Incipient Tuberculosis, care of the State Engineer and Surveyor, Telephone Building, Albany, N. Y., and on the outside of the envelope must be clearly and conspicuously written "Sealed proposal for water supply construction at Raybrook."

Proposals shall be made on blank forms furnished for the purpose and shall be accompanied by a draft or certified check in the sum of five per cent (5%) of the amount of the proposal. The person or persons whose proposal shall be accepted will be required to execute the contract and furnish a "faithful performance bond" in an amount of not less than thirty per cent (30%) and a "labor bond" in an amount of not less than ten per cent (10%) of the amount of the contract within ten (10) days of the notice of award of the contract in accordance with the terms of the specifications.

The right is reserved to reject any and all bids.

Plans, specifications and forms of proposal and contract may be examined in the offices of the Board of Trustees of the New York State Hospital for Incipient Tuberculosis at Raybrook, N. Y., of the State Engineer and Surveyor, Telephone Building, Albany, N. Y., and of the State Engineer and Surveyor, Pier 6, East River, New York City, and specifications and forms of proposal and contract may be obtained from the State Engineer and Surveyor, Telephone Building, Albany, N. Y.

Blueprint copies of plans, consisting of sheets 1 to 8 inclusive, may be obtained from the State Engineer and Surveyor, Telephone Building, Albany, N. Y., upon payment of fifteen cents (15c.) per sheet. Refund will not be made for any blueprints that may be returned.

The deposits of bidders, other than the one to whom the award of contract shall be made, will be returned immediately after the award has been made.

The award, if made, will be to the lowest responsible bidder and the successful bidder will be required to satisfy the Board of Trustees of his ability to provide suitable equipment and materials for the proper performance of the work.

Board of Trustees, New York State Hospital for Incipient Tuberculosis,
By JOHN HURLEY, President.

Dated, July 1, 1922.

OFFICIAL PROPOSALS

Bids: July 17.

Alterations and Repairs to Office Buildings

New York City.

Sealed proposals for Alterations and Repairs, etc. (Painting Work) to Office Buildings, Department of Labor, New York City, will be received by Hon. Henry D. Sayer, Industrial Commissioner, 124 East 28th St., New York City, until 1 o'clock p.m. (Standard Time), on Monday, July 17, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 3921. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Office of the New York State Industrial Commissioner, 124 East 28th St., New York City, at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: June 30, 1922.

Bids: July 18.

Street Paving

Kennett, Mo.

Sealed bids will be received by the Mayor and Council of the City of Kennett, Missouri, at the Office of the City Clerk, up to 7 o'clock p.m. on the 18th day of July, 1922, and will then be publicly opened and read.

The approximate quantities on this work are as follows: 6,520 cu.yds. earth excavation, 30,225 sq.yds. reinforced concrete pavement, 15,545 linear feet of concrete integral curbing 390 cu.yds. concrete for manholes and sewers, 36,430 lbs. of reinforcing steel, 3,910 lbs. of iron castings, 780 feet 12" vitrified pipe.

Plans and Specifications are on file at the office of the City Clerk or at the office of the Engineers, and copies of same can be obtained from the Engineers on receipt of $3.00.

A certified check or bidder's bond in the sum of One Thousand Dollars must accompany all proposals, check or bond to be made payable to the order of the Mayor.

All bids must be made on forms furnished by the Engineer; informal bids will not be considered.

The right is reserved to reject any or all bids.

J. W. KARSTEN, Mayor.
DAVE STROUD, Clerk.

C. E. SMITH & CO., Engineers,
Cape Girardeau, Mo.

OFFICIAL PROPOSALS

Bids: July 31.

Sewage Disposal Plant

Indianapolis, Ind.

Sealed proposals will be received by the Board of Sanitary Commissioners, Sanitary District of Indianapolis, at its office in the City Hall, Indianapolis, Indiana, until 10 a.m. July 31st, 1922, at which time bids will be publicly opened and scheduled, and awards made as soon thereafter as practicable, for construction of Section 2, Division III, and furnishing and erecting mechanical equipment for the Sewage Disposal Plant of the Sanitary District of Indianapolis, in accordance with plans and specifications on file at the office of the Board. This construction and equipment to consist of the following general items:

(1) One (1) Power Plant Building of Brick, Concrete and Steel, approximately 130 ft. x 82 ft. in plan and 65 ft. from bottom of foundation to top of coping wall.
(2) Two (2) Reinforced Concrete Pump Pits including Brick Pump Houses, as specified.
(3) One (1) Radial Brick Chimney, 200 ft. high, 9 ft. internal diameter.
(4) Railway grading, approximately 2,800 ft. in length.
(5) Water, Steam and Air Piping and Erection of Sludge Equipment and other machinery.
(6) One (1) Electric Power Plant Crane.
(7) Five (5) Electric Centrifugal Pumping Units.

Each bidder shall be required to deposit with his bid a certified check in the amount as provided in said specifications and information to bidders, to insure the execution of the contract for which bid is made.

Copies of plans and specifications and general information may be obtained at the office of Charles H. Hurd, Consulting Engineer, 1405 Merchants Bank Building, Indianapolis, Indiana.

The board reserves the right to reject any and all bids.

BOARD OF SANITARY COMMISSIONERS
Jay A. Craven, President.
John L. Elliott, Vice-Pres.
Lucius B. Swift.

Bids: July 18.

Levee and Excavation

Beardstown, Illinois.

Sealed bids will be received by the Commissioners of the Coal Creek Drainage and Levee District of Schuyler County, Illinois, until 2:00 o'clock p.m. on July 18, 1922, at the office of Glass and Bottenberg, Rushville, Illinois, at which time and place they will be opened.

The proposed work will require the handling of approximately 200,000 cu.yds. of earth for levee reinforcement to be done with a floating dredge, and 120,000 cu.yds. excavation to be done with a drag line or other device. Information, plans and specifications for said work may be obtained at the office of the undersigned upon deposit of $10.00 refundable upon return of same.

Bids will be received separately for the levee work to be done by dredge, and that to be done by drag line. Each bidder must accompany his bid by a certified check for $5,000.00 on work to be done by dredge, and a certified check for $3,000.00 in the case of work to be done with drag line.

GEORGE C. LOWE,
Engineer

OFFICIAL PROPOSALS

Bids: Aug. 15.

Hydro-Electric Project

Dotham, Ala.

Sealed proposals will be received by the Mayor and City Council of the City of Dothan, Alabama, until 2 o'clock p.m., Tuesday, August 15th, 1922, for constructing a Hydro-Electric Project with appurtenances, and furnishing materials and equipment, at High Bluff on the Choctawhatchee River about eight (8) miles from Hartford, Ala., in sections 9 and 4 of township 2N, Range 23E, Geneva County, Alabama. The work consists of the construction of an earth dam, a concrete spillway, abutments and power house, and the furnishing and placing of machinery.

The principal approximate quantities involved are the following:

51,000 cu.yds. of excavation.
380,000 cu.yds. of embankment.
18,500 cu.yds. of concrete of different classes.
1,960,000 pounds of reinforcing steel.
354,000 pounds of structural steel work.

Turbines, generators, transformers and auxiliary power house equipment for a present installation of approximately 3,000 hhp. capacity in two units.

A transmission line twenty-one and one-half (21½) miles long at 44,000 volts pressure.

Plans and specifications are on file at the office of the City Clerk at Dothan, Alabama, and at the office of The Ludlow Engineers at Winston-Salem, N. C., where they may be examined by prospective bidders.

Copies of the plans covering the construction details of this project and two copies of the specifications attached to the form of proposal and contract will be furnished by The Ludlow Engineers, Winston-Salem, N. C., upon application by prospective bidders accompanied by a check for twenty-five ($25.00) dollars to cover the cost, or, separate prints, and extra copies of specifications and form of proposal, etc., at one ($1.00) dollar each.

Each bid must be accompanied by a certified check for approximately five (5%) per cent of the bid.

Proposals will be received at the City Hall, Dothan, Alabama, and opened publicly with the right reserved to accept any bid or to reject any or all bids as the best interests of the City may appear.

Plans and supervision by THE LUDLOW ENGINEERS, INC. Winston-Salem, N. C.

E. O. JONES, Mayor.
R. W. LISENBY, City Clerk.

Bids: Aug. 10.

Drainage and Ditch Improvement

Wooster, Ohio.

Notice is hereby given that sealed proposals for the construction of the JOINT WAYNE-HOLMES COUNTY DITCH IMPROVEMENT will be received up until twelve o'clock noon Eastern Standard Time on Thursday, August 10, 1922, at the office of the Secretary of the Joint Board of County Commissioners of Wayne and Holmes Counties at the Court House at Wooster, Ohio.

The work to be done consists of the drainage and dredging of Killbuck Creek in Wayne and Holmes Counties, in all, the distance of One Hundred and Fifty-Six (156) feet.

The yardage of earth to be moved is estimated at about 1,780,000 cubic yards, consisting principally of Hydraulic dredge work. The date of completion will be eighteen months from the date of awarding of contract.

A certified check in the amount of $10,000.00, payable to the Joint Board of County Commissioners of Wayne and Holmes Counties, Ohio, must accompany each proposal. Checks of unsuccessful bidders will be returned within ten days of the awarding of the contract.

The said board reserves the right to reject any or all bids. Plans, specifications and proposals are on file at the Secretary's office at the Court House, Wooster, Ohio, or same will be mailed upon application when same is accompanied by a deposit of $20, which will be refunded if plans are returned in good condition.

By order of the Joint Board of County Commissioners of Wayne and Holmes Counties.

CHAS. F. SCHOPF,
Secretary.

OFFICIAL PROPOSALS

Bids: July 21.

Steel and Concrete Bridge

Cobleskill, N. Y.

Sealed bids and proposals will be received by the undersigned, at the office of the Town Clerk, in the village and town of Cobleskill, N. Y., until one o'clock in the afternoon of July 21, 1922, at which time they will be publicly opened and read, for the building of a new steel and concrete bridge over the Cobleskill Creek, on the Barnerville-Howe Cave road in said town.

Plans and specifications of said bridge may be seen and examined at the office of the town clerk in said village and town, and also at the office of Lawyer Wright, Superintendent of Highways of Schoharie County, at Schoharie, N. Y.

The right to reject any and all bids is hereby reserved.

Dated June 27th, 1922.

HERBERT L. SWEET,
Superintendent of Highways.
LEWIS UTTER,
Supervisor.
WILLIAM H. WHITE,
Justice of the Peace.
WILLIAM H. GOLDING,
Justice of the Peace.
GEORGE CHICKERING,
Justice of the Peace.
LELAND C. JONES,
Justice of the Peace.
AURA J. BROWN,
Town Clerk of the Town of Cobleskill, N. Y.

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Bids: July 25.

Barge Canal Terminals

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, July 25, 1922, at which place and hour they will be publicly opened and read, for the construction of Barge canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, and Chapter 402 of the Laws of 1920, as follows:

—1—

TERMINAL CONTRACT NO. 89

For paving a portion of the terminal site, constructing railroad and crane tracks, electrical work and details incidental thereto, at Syracuse.

Contract plans, sheets 1 to 4 inclusive.

—2—

TERMINAL CONTRACT NO. 90

For dredging a portion of the Henry Street slip at Gowanus Bay, Borough of Brooklyn, New York City.

Contract plans, sheet No. 1.

Plans may be seen and detailed specifications, engineer's estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate at fifteen cents (15c.) per sheet. Refund will not be made for any blueprints which may be returned.

OFFICIAL PROPOSALS

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

CHARLES L. CADLE,
Superintendent of Public Works.
June 22, 1922.

Bids: July 18.

Sidewalk Construction

Miami, Fla.

Sealed proposals will be received by "The Commission of the City of Miami, Florida," at the City Hall in Miami, Florida, until 11 a.m. at the regular meeting of the Commission, Tuesday, July 18th, 1922, for the construction of Concrete Sidewalks.

The work will consist of: Approximately 24,683 square yards of concrete sidewalk, and will be divided into 2 contracts. The bidder can bid on any or all of these contracts.

The improvements are to be constructed and payment therefor is to be made under Section 56 of the City Charter.

All bids must be upon blank forms provided in the proposal, specifications and contract.

Each bid must be accompanied by a certified check for 2½ per cent of the amount of the bid to insure the execution of the contract as provided by Section 56 of the City Charter.

The City reserves the right to reject any or all bids.

Plans and specifications will be on file at the City Hall in the office of the City Manager.

Copies of proposals, specifications and contract can be obtained from the office of Chas. W. Murray, Director of Public Service, on deposit of $10.00, which will be refunded to those who submit bona fide bids.

F. H. WHARTON,
City Manager.

OFFICIAL PROPOSALS

Bids: July 25.

Sewer

Oklahoma City, Okla.

Sealed bids will be received by C. F. Semmelbeck, City Clerk of the city of Oklahoma City, Oklahoma, up to 12:00 o'clock m., Tuesday, July 25th, 1922, and a duplicate of each bid must be filed with the City Auditor of said city, and will be opened and considered by the Board of Commissioners in the Commissioners' Chamber in the City Hall Building at 2:00 o'clock p.m., Thursday, July 25th, 1922, for the furnishing of all materials and labor for the construction of the following work for the Lee Avenue Sewer District.

SECTION 2 (b)—The Lee Avenue Storm Main Sewer from the North Canadian River to the north line of Pottawatomie Avenue.

SECTION 2 (c)—The Lee Avenue Storm Main Sewer from the north line of Pottawatomie Avenue to the north line of California Avenue.

SECTION 2 (d)—The Lee Avenue Storm Main Sewer from the north line of California Avenue to the center of Second Street.

SECTION 2 (b)—Bids will be received for reinforced monolithic concrete sewer on this section.

This section consists of the construction of approximately 2,825 lineal feet of 13 ft. 9 in. x 13 ft. 9 in. sewer, together with the outfall, manholes, improved catch basins, catch basin leads, etc., necessary for the construction of the above.

SECTION 2 (c)—Bids will be received for reinforced monolithic concrete sewer on this section.

This section consists of the construction of approximately 1,960 lineal feet of 13 ft. x 13 ft. sewer together with manholes, improved catch basins, catch basin leads, etc., necessary for the completion of the above.

SECTION 2 (d)—Bids will be received for reinforced monolithic concrete sewer on this section.

This section consists of the construction of approximately 900 lineal feet of 12 ft. x 12 ft. sewer, and approximately 775 lineal feet of 11 ft. x 11 ft. sewer, together with the junction chamber, manholes, improved catch basins, catch basin leads, etc., necessary for the completion of the above.

Bids will be considered on each section separately and on the three sections as a whole.

All of the necessary work and materials used shall be in accordance with the plans and specifications therefor, now on file in the office of the City Clerk.

Each bidder shall accompany his bid with a sworn statement in writing that the bidder has not directly nor indirectly made any agreement, expressed or implied, with any other bidder or bidders having for its object the controlling of the price or amount of such bid or bids, the limiting of the bidder or bidders, the parcelling or farming out to any bidder or bidders, or other persons of any part of the contract or any part of the subject matter of the bid or of the profits thereof; and has no knowledge of the amount, kind or character of any kind to be made by any other person, firm or corporation, except those submitted and filed by him.

The bid or bids filed with the City Clerk must be accompanied by a certified check on any national bank or any Oklahoma City bank in the sum of three (3) per cent of the amount of the bid or bids.

It being further understood that the amount of damages which the city would suffer would be impracticable to determine and extremely difficult to fix in case the successful bidder should fail to enter into a contract and give the required bonds within the required time, it is therefore understood that by the filing of a bid or bids it will be considered as agreed that the amount of damages which the city would suffer by reason of such failure on the part of said successful bidder, is the amount represented by check or checks so filed by the successful bidder and that the city shall have the authority to appropriate such checks for its own use and benefit in payment for such damages.

Each bidder shall agree to enter into contract and give the required bonds within ten (10) days after the acceptance of his bid, also to commence work within twenty (20) days after signing the contract and to complete Section 2 (b) with one hundred eighty (180) days; Section 2 (c) within one hundred twenty (120) days; Section 2 (d) within ninety (90) days; and the three sections within two hundred forty (240) days after commencing the work.

The contractor will be required to give bond in the sum of twenty (20) per cent of the contract price for faithful performance of said work, and all other bonds that are required by the laws of the State of Oklahoma or the ordinances of the said city, and to give bond to hold the city harmless from any and all damages for which the city might be liable under the law, and which might occur by reason of any act upon the part of the said contractor or of any of his employees.

A deposit of Twenty-five ($25.00) dollars will be required for each set of plans and specifications.

The Board of Commissioners reserves the right to reject any or all bids.

C. F. SEMMELBECK,
(Seal) City Clerk.

Bids: July 19.

Turbine and Accessories

New Orleans, La.

Sealed proposals will be received by the Sewerage and Water Board of New Orleans, up to 12 o'clock noon, Wednesday, July 19, 1922, for furnishing one 6,000 kw. turbine and accessories.

Specifications and blank forms of proposals may be obtained at Room 303, No. 526 Carondelet Street, New Orleans.

The right is reserved to reject any or all bids.

A. G. MOFFAT, Secretary
GEO. G. EARL, General Superintendent,
May 11, 1922.

Engineering News-Record Reaches Your Local Contractors

Its distribution among the contractors of any one state is in proportion to the number of contractors situated in that state. The Official Proposal Columns of *Engineering News-Record* offer precisely the same efficient service to municipalities, counties, and state and government departments in every section of the United States.

Bids: July 26.

Cast-Iron Main Sewer

Rye, N. Y.

Sealed proposals will be publicly opened by the Trustees of the Village of Rye, N. Y., at the Village Municipal Hall, at 8.15 P.M., July 26, 1922.

Said proposals to cover the construction (both materials and labor) of a cast-iron main sewer according to plans and specifications filed with the Village Clerk.

Copies of the plans and specifications may be obtained from him, or from the engineer, G. Everett Hill, 45 Seventh Avenue, New York City, upon payment of $15, of which amount $10 will be refunded upon return of all papers, in good condition, on or before July 31st, 1922.

Approximately the work consists of:

About 2,000 feet of 16-inch and about 1,540 feet of 18-inch cast-iron pipe (with manholes and fittings) laid partly on piles and partly on concrete piers.

Each bid must be accompanied by a certified check for $5,000, as a guarantee that the bidder, if his bid be accepted, will enter into contract and execute the required bond.

Each bid must be made on blank forms to be obtained from the Village Clerk or the Engineer.

The Village reserves the right to reject any or all bids.

The Board of Village Trustees,
WILLIAM H. SELZER,
Village Clerk.

G. EVERETT HILL, Engineer,
45 Seventh Ave., New York.

Bids: Aug. 7.

Lighting Facilities

Rome, N. Y.

Sealed proposals for Engines and D. C. Generators (Lighting Facilities) at the State School for Mental Defectives, Rome, N. Y., will be received by Mr. Cyrus J. Severance, President of Board of Managers, State School for Mental Defectives, Rome, N. Y., until 11 o'clock A.M. (Standard Time) on Monday, August 7, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of the proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of the contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 3918. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the State School for Mental Defectives, Rome, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: July 5, 1922.

CHAS. BERNSTEIN,
Superintendent.

Bids: July 18.

Road Work

Westwood, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Westwood, at the Borough Hall on Centre Street, on Tuesday, July 18th, 1922, at 8:30 o'clock p.m. (Daylight Saving Time), for the Grading, Paving, Draining and Curbing of Center Avenue from Jefferson Avenue to Westwood Avenue.

Specifications may be seen and forms of proposals obtained at the office of Watson G. Clark, Consulting Engineer, Hillside Avenue, Tenafly, N. J., upon a deposit of Ten Dollars ($10.00) which amount will be refunded upon return of them in good condition.

All proposals shall be addressed to D. Van Emburgh, Borough Clerk, and placed in a sealed envelope and endorsed "Proposal for the Improvement of Center Avenue."

All proposals must be accompanied by a certified check in the amount of One Thousand Dollars ($1,000.00) payable to the order of the Borough of Westwood, or cash, which sum shall be forfeited if the Contractor shall fail to execute a contract with the Borough within ten (10) days after the same shall be awarded to him.

The right to reject any or all bids for any cause whatsoever is hereby reserved.

D. VAN EMBURGH,
Borough Clerk.

Bids: July 31.

Concrete Paving

Greenville, N. C.

Sealed bids will be received by the Pitt County Highway Commission, at their office in Greenville, N. C., on Monday, July 31st, 1922, at noon, for the paving with concrete five miles of Highway 16 ft. width, between Greenville and Falkland, and also for paving 7 miles of highway 16 ft. in width, with concrete between Greenville and Cox Mill. Bids will be received for both projects as a whole, and also each project separately. Grading completed.

The Highway Commission offers its Industrial Railway and paving equipment for these projects, and also Convict labor.

Plans and profiles may be seen at the Highway Office in Greenville, N. C.

Certified check for two thousand dollars to accompany bid. The right to reject any or all bids is reserved by the Commission.

By Order of The Pitt County Highway Commission, Greenville, N. C.

J. B. HARDING,
Engineer.

OFFICIAL PROPOSALS

Bids: July 21.

Highway Route No. 5—Section No. 8

Belvidere, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the County of Warren for the following: Construction of State Highway Route No. 5, Section No. 8, Great Meadows—Barkers Corner. Estimated amount of reinforced Portland Cement Concrete Pavement is 34,522 square yards.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920.

Bids will be received at the Court House at Belvidere, N. J., on FRIDAY, JULY 21, 1922 AT 1 O'CLOCK P.M., STANDARD TIME.

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of Harry W. Vetter, County Engineer, at Belvidere, N. J., and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten dollars ($10.00) upon application to Harry W. Vetter, County Engineer. Bids must be made on the standard Proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes addressed to the Board of Chosen Freeholders of the County of Warren and bearing the name and address of the bidder and the name and section of the route on the outside. Bids must be accompanied by a certified check drawn to the order of H. O. Carhart, County Treasurer, for not less than ten percent (10%) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to Harry W. Vetter, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Warren passed at a meeting held on June 28, 1922.

MORRIS S. FAUST, Clerk.

Bids: July 18.

Grading, Paving, Draining, etc.

Westwood, N. J.

Sealed proposals will be received by the Mayor and Council of the Borough of Westwood, at the Borough Hall on Centre Street, on Tuesday, July 18th, 1922, at 8:30 o'clock p.m. (Daylight Saving Time), for the Grading, Paving, Draining and Curbing of Third Avenue, from Mill Street to Washington Avenue.

Specifications may be seen and forms of proposals obtained at the office of Watson G. Clark, Consulting Engineer, Hillside Avenue, Tenafly, N. J., upon a deposit of Ten Dollars ($10.00) which amount will be refunded upon return of them in good condition.

All proposals shall be addressed to D. Van Emburgh, Borough Clerk, and placed in a sealed envelope and endorsed "Proposal for the Improvement of Third Avenue."

All proposals must be accompanied by a certified check in the amount of Two Thousand Dollars ($2,000.00) payable to the order of the Borough of Westwood, or cash, which sum shall be forfeited if the Contractor shall fail to execute a contract with the Borough within ten (10) days after the same shall be awarded to him.

The right to reject any or all bids for any cause whatsoever is hereby reserved.

D. VAN EMBURGH,
Borough Clerk.

OFFICIAL PROPOSALS

Bids: July 14.

Curb, Gutters and Sewers

Ann Arbor, Mich.

Sealed proposals will be received by the Board of Public Works, Ann Arbor, Michigan, through the City Clerk, on or before 7:30 p.m., Eastern Standard Time, July 14, 1922, for the construction of concrete curb and gutter in curb and gutter Districts Nos. 24 to 49 inclusive, also for the construction of lateral sewer in Lateral Sewer District No. 112 and for a storm sewer on Brooks St., from Pearl St. to Miller Ave. Approximate quantities are as follows:

53,200 lin.ft. combined curb and gutter.
680 lin.ft. 10 in. vitrified pipe.
1,200 lin.ft. 12 in. vitrified pipe.
1,240 lin.ft. 15 in. vitrified pipe.
250 lin.ft. 18 in. vitrified pipe.
480 lin.ft. 22 in. vitrified pipe.
2,000 cu.yds. excavation and backfilling.

Plans and specifications are on file in the City Engineer's Office. A certified check for 5% of the bid must accompany each bid as guarantee of good faith of bidder and the Board of Public Works reserves the right to reject any and all bids.

ISAAC G. REYNOLDS,
City Cerk.

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Engineering News-Record's circulation—over 30,000 weekly—is the largest of any technical paper printed. It includes among its readers practically every contractor, dealer, and manufacturer in the country who is interested in bidding on public works contracts—either local or outside of his immediate vicinity.

Bids: July 19.

State Highway Work

Providence, R. I.

Sealed proposals for the reconstruction of a section of State Highway 2,450 feet in length, located upon the Riverside Drive, so-called, in the Town of Tiverton, will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 m. (Daylight Saving), 11 a.m. (Eastern Standard), on Wednesday, July 19, 1922, at which time they will be opened and read in public.

The principal quantities involved are as follows:

Earth Excavation, 250 cu.yds.
Clearing, scarifying, harrowing and reshaping, 3,700 sq.yds.
Laying culvert pipe (12 to 24 inch), 444 lin.ft.
Catch basins, 4 each.
Crushed stone, 1,100 tons.
Applying asphalt, 13,000 gals.

Bids must be made upon blank forms to be furnished by the Board.

No bids will be accepted unless accompanied by a certified check for the sum of $200.00 payable to the State of Rhode Island.

The Board reserves the right to reject any and all bids, and to give preference to towns or cities, in accordance with Section V of Chapter 84 of the General Laws.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, State House, Providence, R. I., on and after Wednesday, July 5th, 1922, every week day (except holidays and Saturdays), between the hours of 9 a.m. and 5 p.m., Saturdays 9 a.m. to 12 m.

State Board of Public Roads.
ABRAM L. ATWOOD,
BENJAMIN F. ROBINSON,
FRANK COLE,
J. HENRY WOODARD,
ALTON HEAD.

OFFICIAL PROPOSALS

Bids: July 18.

Concrete Flood Gate and Appurtenances

Little Rock, Ark.

Sealed proposals will be received by the Secretary of the Farelly Lake Levee District at the Marion Hotel, Little Rock, Ark., until 2 p.m., Tuesday, July 18, 1922, for the construction of a Concrete Flood Gate and Appurtenances at Big Bayou Meto, Gillett, Arkansas County, Ark. Following are the approximate quantities:

Excavation	50,000 cu.yd
Round foundation piles	24,000 lin.ft.
Steel sheet pile cut off walls	20,000 sq.ft.
Concrete	6,500 cu.yd
Reinforcing steel	200 tons
Gates and accessories	150 tons
Hand rail, 2-in. GI pipe and fittings	1,500 lin.ft.
Hand rail, 1½-in. GI pipe and fittings	1,000 lin.ft.
Hoisting apparatus	30 tons

Detail plans, specifications and blank forms of proposal are on file at the office of A. W. Dobyns, Attorney, Little Rock, Ark., and at the office of Ayres & Miller, McCall Building, Memphis, Tenn.

Detail plans, specifications and proposal forms will be furnished upon application accompanied by a certified check for twenty ($20) dollars.

Each proposal shall be accompanied by a certified check for fifteen thousand ($15,000) dollars made payable to the Secretary of the Board.

This check is to be conditioned that, if the bid is accepted, a contract will be entered into and the performance of same secured within ten (10) days after notification of acceptance of bid. Successful bidder will be required to furnish a surety bond in an acceptable surety company in the sum of fifty (50%) per cent of the contract price.

The right is reserved to reject any or all bids and to waive any technical defects, as the interests of the district may require.

The Engineers, or their assistants, will be at Gillett, Ark., from July 10 to July 15 to show prospective bidders over the work.

JOHN M. GRACIE, Chairman
Board of Commissioners.
J. B. QUINN, Secretary,
Gillett, Arkansas.
AYRES & MILLER, Engineers,
McCall Building, Memphis, Tennessee.

Bids: Aug. 1.

Sanitary Sewer and Septic Tanks

Lake Worth, Fla.

Sealed proposals for the following contracts will be received by the Town Commissioners of Lake Worth, Florida, at the office of the Town Clerk until 10 o'clock a.m., August 1, 1922, for furnishing all materials, equipment and labor for the construction of a sanitary sewer system and septic tank, complete as per plans and specifications adopted by them.

The contracts will be divided as follows:

DISTRICT No. 1. Approximately 22,613 feet of 8-in. vitrified tile sewer, 1,620 feet of 10-in. vitrified tile sewer, 1,656 feet of 15-in. vitrified tile sewer, 370 feet of 14-in. cast-iron outfall and a reinforced concrete septic tank, all of the above to be complete with manholes and appurtenances.

DISTRICT No. 2. Approximately 19,297 feet of 8-in. vitrified tile sewer, 3,482 feet of 12-in. vitrified tile sewer, 250 feet of 14-in. cast-iron outfall and a reinforced concrete septic tank, all of the above to be complete with manholes and appurtenances.

Bids must be made out on blanks furnished by the City Engineer and must be accompanied by a certified check for $1,000 for each contract.

Plans, specifications and other necessary data may be obtained from the Town Clerk upon deposit of $10.00, of which the sum of $5.00 will be refunded upon return of the plans and specifications in good condition.

The bidder to whom the contracts are awarded must furnish surety bond in the sum of 25 per cent of the amount of the bid.

The Commissioners reserve the right to reject any and all bids.

J. L. BOSLEY,
City Clerk.
WARD RANDOLPH,
City Engineer.

OFFICIAL PROPOSALS

Bids: Aug. 2.

Water Filtration Plant

Oklahoma City, Okla.

Sealed bids will be received by C. F. Semmelbeck, City Clerk of the city of Oklahoma City, Okla., up to 12 o'clock m., Wednesday, August 2, 1922, and a duplicate of each bid must be filed with the City Auditor of said city, and will be opened and considered by the Board of Commissioners in the Commissioners' Chamber in the City Hall Building at 2 o'clock p.m., Wednesday, August 2, 1922, for the furnishing of all materials and labor for the construction of Aerator, Mixing Chamber, two (2) Clear Water Reservoirs, Head House, and eight (8) Two Million Gallon Filter Units complete with all equipment and appurtenances necessary to complete the water purification plant.

All the necessary work and materials used shall be in accordance with the plans and specifications now on file in the office of the City Clerk.

Each bidder shall accompany his bid by a sworn statement in writing that the bidder has not directly or indirectly made any agreement, expressed or implied, with any other bidder or bidders having for its object the controlling of the price or amount of such bid or bids, the limiting of the bidder or bidders, the parceling or farming out to any bidder or bidders, or other persons of any part of the contract or any part of the subject matter of the bid or of the profits thereof; and has no knowledge of the amount, kind or character of any bid to be made by any other person, firm or corporation, except those submitted and filed by him.

The bid or bids filed with the City Clerk must be accompanied by a certified check on any national bank, or any Oklahoma City bank in the sum of three (3%) per cent of the amount of the bid.

It being further understood that the amount of damages which the city would suffer would be impracticable to determine and extremely difficult to fix, in case the successful bidder should fail to enter into a contract and give the required bonds within the required time. It is therefore understood that by the filing of a bid or bids it will be considered as agreed that the amount of damages which the city would suffer by reason of such failure on the part of such successful bidder is the amount represented by the checks so filed by the successful bidder and that the city shall have authority to appropriate such checks for its own use in payment for such damages.

Each bidder shall agree to enter into contract within ten (10) days after the acceptance of his bid, also to commence work within twenty (20) days after signing the contract.

The contractor will be required to give bond in the sum of twenty (20%) per cent of the contract price for faithful performance of said work, and all other bonds that are required by the laws of the State of Oklahoma or the ordinances of the said city, and to give a bond to hold the city harmless from any and all damages for which the city might be liable under the law, and which might occur by reason of any act upon the part of said contractor or any of his employees.

A deposit of twenty-five ($25.00) dollars will be required for each set of plans and specifications.

The Board of Commissioners reserves the right to reject any or all bids.

C. F. SEMMELBECK,
City Clerk.

A. S. HOLWAY,
Engineer Water Department.

Bids: July 24.

Road Work

Columbia, Mo.

SEALED PROPOSALS will be received by the undersigned City Clerk of Columbia, Boone County, Missouri, until four o'clock P.M., the twenty-fourth day of July, 1922, for repairing, surfacing and resurfacing with Tarvia preparations, about 37,000 square yards of streets in Districts two, four, six and seven, in accordance with the plans and specifications on file with the city clerk, the work to be paid for in special tax bills.

JOHN S. BICKNELL,
City Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 4.

Concrete Highway and Appurtenances

Hallstead, Pa.

Sealed proposals will be received by the Council of the Borough of Hallstead, County of Susquehanna, State of Pennsylvania, on August 4th, 1922, until 8 o'clock p.m., at their office at Municipal Building, at which time and place proposals will be opened and read for the construction of concrete highway and appurtenances on Franklin Street, Pine Street, Susquehanna Avenue, and Main Street.

Proposals must be on forms provided and must be accompanied by a certified check for 5 per cent of the total amount bid.

Proposal forms, specifications, maps and other information may be obtained at the office of the Secretary of the Borough of Hallstead, Pa., or at the office of Hoadley & Giles, Civil Engineers, 415 Phelps Bldg., Binghamton, N. Y.

A deposit of ten dollars will be required for each set of plans and specifications, which will be refunded upon return of plans and specifications.

The Borough Council reserves the right to reject any or all bids.

F. C. BROWN,
President, Hallstead Borough Council.

W. J. KIRBY,
Secretary.

National Publicity Offers a Two-Fold Advantage

Giving calls for bids National publicity opens the way for additional and possibly lower offers from outside bidders to whom work can be let, if desired.

Then too, local contractors, seeing your contracts advertised Nationally will figure closer, realizing that the field of competitors for the work is greatly enlarged.

An advertisement printed in the Official Proposal Columns of *Engineering News-Record* brings the contract to the attention of not only local bidders but, in addition, any others who might be interested.

Bids: July 18.

Paving

Miami, Fla.

Sealed proposals will be received by "The Commission of the City of Miami, Florida," at the City Hall in Miami, Florida, until 11 a.m., at the regular meeting of the Commission, Tuesday, July 18th, 1922, for the construction of Bituminous Macadam Pavement.

The work will consist of: 170,819 square yards of bituminous macadam paving, and will be divided into 8 contracts. The bidder can bid on any or all of these contracts.

The improvements are to be constructed and payment therefor is to be made under Section 56 of the City Charter.

All bids must be upon blank forms provided in the proposal, specifications and contract.

Each bid must be accompanied by a certified check for 2½ per cent of the amount of the bid to insure the execution of the contract as provided by Section 56 of the City Charter.

The City reserves the right to reject any or all bids.

Plans and specifications will be on file at the City Hall in the office of the City Manager.

Copies of proposals, specifications and contract can be obtained from the office of Chas. W. Murray, Director of Public Service, on deposit of $10.00, which will be refunded to those who submit bona fide bids.

F. H. WHARTON,
City Manager.

OFFICIAL PROPOSALS

Bids: July 26.

Sewer Construction

Letting No. 3.

Louisville, Ky.

Sealed proposals will be received by the Commissioners of Sewerage of Louisville until 12 o'clock noon, July 26, 1922, for the construction of the Bardstown Road District Trunk sewer and drain, Section A, according to drawings and specifications now on file in the office of the Commission.

Approximate quantities are as follows:

One inverted siphon under Beargrass Creek 210 ft. in length including 8-in., 12-in., and 16-in. cast iron pipe and three concrete chambers.

The Sewer—342 lin.ft. 24-in., 485 lin.ft. 21-in., 1,650 lin.ft. 18-in., 174 lin.ft. 8-in.

The Drain—174 lin.ft. 24-in., 300 lin.ft.—5 ft. 1 in. by 9 ft. 1 in. semi-circular.

877 lin.ft. 75-in. semi-elliptical concrete or 78-in. circular segment block.

1,012 lin.ft. 87-in. semi-elliptical concrete or 90-in. circular segment block.

Proposals are invited for alternate types for the last two items included under the quantities for the drain.

Drawings, form of proposal, contract and specifications may be obtained from the office of the Commission upon the deposit of Ten Dollars ($10.00) to secure the return of same in good condition before August 10, 1922.

Each proposal must be inclosed in a sealed envelope addressed to the Commissioners of Sewerage, 417 West Main Street, Louisville, Ky., and accompanied by a certified check drawn upon a State or National Bank or a trust company established in the city of Louisville (or the city of New York, for an amount not less than seven (7) per cent of the total amount of the accompanying proposal payable to the Commissioners of Sewerage of Louisville or the bond executed as set forth in the information for bidders.

The Commission reserves the right to reject any or all proposals.

COMMISSIONERS OF SEWERAGE OF LOUISVILLE.
By GEORGE T. WOOD,
Chairman.
P. H. HOGE, JR.,
Sect. & Treas.

J. B. F. BREED,
Chief Engineer.

Bids: July 21.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., advanced standard time which is twelve o'clock noon eastern standard time, on Friday, the 21st day of July, 1922, for the improvement of the following in Cattaraugus County.

Highway No. 8018-A. Bradford-Carrollton, Part 2 (Carrollton Bridge). The work to be done under this contract includes seven spans of steel trusses weighing approximately 1,150,000 lbs. with six concrete piers and two abutments. The approximate length of steel structure is 895 feet and the roadway is 20 feet in width, surfaced with wood block on a reinforced concrete floor. Also for the improvement of the following highways:

Allegany	(two highways: 2.77 & 8.35)
Fulton	(one highway: 4.23)
Oneida	(one highway: 2.75)
St. Lawrence	(one highway: 7.73)
Steuben	(one highway: 1.01)
Wayne	(one highway: 1.65)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

HERBERT S. SISSON,
Commissioner.

J. C. FINCH,
Secretary.

OFFICIAL PROPOSALS

Bids: Aug. 7.

Watermain Extension

Mitchell, S. D.

Sealed bids will be received at the Office of the City Auditor, Mitchell, South Dakota, up to eight (8:00)o'clock p.m. of Monday, the 7th day of August, 1922, for furnishing material and labor and constructing complete the watermain extensions proposed, in accordance with the plans and specifications on file at the Office of the City Auditor. Separate bids will be entertained as follows:

SECTION NO. 1. For furnishing all material, labor, equipment, etc., and constructing complete the proposed watermain extensions together with all accessories.

SECTION NO. 2. For furnishing the cast iron pipe and special castings listed on proposal blank No. 2. All prices to be f.o.b. Mitchell, South Dakota, freight and any tax included.

SECTION NO. 3. For furnishing all labor and materials, (except cast iron pipe and special castings) tools, equipment, etc. necessary for the construction complete of all watermain extensions and accessories.

"SECTIONS 2" and "3" are optional with "SECTION 1."

All the above material and work must be in accordance with the plans and specification on file at the Office of the City Auditor, Mitchell, South Dakota.

The above material and work is to be paid for in cash.

Any prospective bidder desiring a copy of the specifications may obtain the same from the City Auditor by making a deposit of $5.00, which amount will be refunded on the return of said specifications within five days following the date of receiving bids.

Each bid must be accompanied by a certified check (or draft) in the sum of not less than five per cent (5%) of the total amount of the bids. This check (or draft) must be drawn upon an incorporated Trust Company or Bank and made payable to the City Treasurer, Mitchell, South Dakota, and shall be forfeited and become the property of the City in cae the bidder neglects or refuses to enter into a contract and to furnish bond (of full amount of contract) within ten (10) days after the date when his proposal shall have been accepted by the City. All other checks will be returned upon demand after the contract has been awarded.

The City reserves the right to reject any and all bids.

E. V. BOBB, Mayor.
FRANK McGOVERN,
City Auditor.
FRED J. HENSON,
City Engineer.

Bids: July 18.

Sewer

Miami, Fla.

Sealed proposals will be received by "The Commission of the City of Miami, Florida," at the City Hall in Miami, Florida, until 11 a.m. at the regular meeting of the Commission, Tuesday, July 18th, 1922, for the construction of Sanitary Sewers.

The work will consist of: Furnishing and laying approximately

65,000 feet 8" pipe.
4,000 feet 10" pipe.
3,000 feet 12" pipe.
1,500 feet 15" pipe.
with necessary manholes and flush tanks.

and will be divided into 3 contracts. The bidder can bid on any or all of these contracts.

The improvements are to be constructed and payment therefor is to be made under Section 56 of the City Charter.

All bids must be upon blank forms provided in the proposal, specifications and contract.

Each bid must be accompanied by a certified check for 2½% of the amount of the bid to insure the execution of the contract as provided by Section 56 of the City Charter.

The City reserves the right to reject any or all bids.

Plans and specifications will be on file at the City Hall in the office of the City Manager.

Copies of proposals, specifications and contract can be obtained from the office of Chas. W. Murray, Director of Public Service, on deposit of $10.00, which will be refunded to those who submit bona fide bids.

F. H. WHARTON,
City Manager.

OFFICIAL PROPOSALS

Bids: July 17.

Curbing and Paving

Leechburg, Pa.

The Council of Leechburg Borough will receive bids for grading, curbing and paving Linden Avenue and portions of First Street, Center Avenue and Floral Avenue in the Borough of Leechburg, Pa.

Approximate amount of work to be done:
8000 lin.ft. of Curbing
3000 cu.yd. of Grading
200 cu.yd. of Filling
11000 sq.yd. of Paving

Bids will be taken for reinforced concrete curbing; also for Cleveland sand stone curbing, for reinforced concrete paving; also for Trinidad asphalt paving; also for a couple of short sections of Hillside brick.

Specifications can be secured from Borough Engineer C. A. Ehrenfeld, or from John A. Hill, Borough Secretary, Leechburg, Pa.

A certified check in amount of $500.00 must accompany each bid as a guarantee, that if awarded contract, bidder will file bond, to properly execute the work. The right to reject any or all bids is reserved.

Bids must be in hands of Borough Secretary on or before 8.00 p.m., Monday, July 17, 1922, at which time bids will be opened.

THIS ADVERTISING COSTS LITTLE

The cost of giving contracts NATIONAL publicity through the Official Proposal Columns of *Engineering News-Record* is only 40 cents a line an insertion. Figured on a circulation basis, the cost per line per thousand readers (1 1/3 cents) is extremely small, compared with the cost of other forms of publicity and the possibility of large waste distribution through publications of limited or general circulations. A single lower bid may save the cost of the advertising many times over.

Bids: Aug. 15.

Inlet Construction

Ft. Lauderdale, Fla.

Notice is hereby given that the Board of County Commissioners, Broward County, Florida, will receive bids until 11.00 A.M., on Tuesday, August 15, 1922, for the construction of an inlet from New River Sound to the Atlantic Ocean, near Ft. Lauderdale, as per plans and specifications on file in the Clerk's Office, Courthouse Bldg., Ft. Lauderdale, Fla.

Such work shall be let in two contracts, being as follows:

(a) The dredging of 81,000 cubic yards more or less of earth; and the dredging of 5,000 cubic yards more or less of rock;

(b) The furnishing and placing of 6,200 cubic yards more or less of riprap and jetty hearting and of 2,500 tons more or less of jetty capping, all in riprap and jetty construction.

Separate bids will be received and separate contracts let for each of the two classes of work mentioned. Copy of plans and specifications may be secured from the Clerk upon payment of $1.00 to cover cost of printing the same.

Each bid shall be accompanied by a certified check in the amount of 3% of the bid, guaranteeing that the bidder will make contract and bond within ten days of notice of award.

Bond on each contract will be required in the sum of 50% of the amount bid.

Address all bids to the Board of County Commissioners, in care of Frank A. Bryan, Clerk, Ft. Lauderdale, Fla.

The Board reserves the right to reject any and all bids.

By order of the Board.

H. G. WHEELER,
Chairman.

Attest:—
Frank A. Bryan, Clerk.
Geo. B. Hills Company, Engineers,
Jacksonville, Florida.
Dated July 10, 1922.

OFFICIAL PROPOSALS

Bids: Aug. 4.

Road Work

Roswell, New Mexico.

Sealed proposals will be received at the office of the City Clerk of the City of Roswell, New Mexico, until 4.00 o'clock p.m., on Friday, August 4th, 1922, for paving, curbs, gutters, grading and all necessary incidental appurtenances thereto on the following named streets, street intersections and alley in accordance with the Provisional Order of the City Council of the City of Roswell, dated May 9th, 1922:

1. Main Street, from the north line of Walnut Street to the north line of Tilden Street, and from the north line of Fifth Street to the north line of Seventh Street.

2. Virginia Avenue, from the north line of First Street to the south line of Second Street; from the north line of Second Street to the south line of Third Street; from the north line of Third Street to the south line of Fourth Street; from the north line of Fourth Street to the south line of Fifth Street, and from the north line of Fifth Street to the south line of Sixth Street.

3. Richardson Avenue, from the north line of First Street to the north line of Albuquerque Street, and from the north line of Seventh Street to the south line of Ninth Street.

4. Pennsylvania Avenue, from the north line of Walnut Street to the south line of Seventh Street, and from the north line of Seventh Street to the south line of Eighth Street.

5. Lea Avenue, from the north line of Second Street to the south line of Seventh Street.

6. First Street, from the west line of Main Street to the east line of Richardson Avenue.

7. Second Street, from the west line of Pennsylvania Avenue to the east line of Kentucky Avenue, and from the west line of Kentucky Avenue to the east line of Michigan Avenue.

8. Fourth Street, from the west line of Pennsylvania Avenue to the east line of Kentucky Avenue, and from the west line of Kentucky Avenue to the east line of Lea Avenue.

9. The Alley between Main Street and Virginia Avenue; from the south line of Fourth Street to the north line of Third Street; from the south line of Third Street to the north line of Second Street; from the south line of Second Street to the north line of First Street.

Bids will be received on Warrens Bitulithic pavement with concrete base, asphaltic concrete base, and plain concrete and asphaltic concrete (Topeka Mix) pavements.

The following is an estimate of the work to be done as compiled by the City Engineer:

56,000.00 sq.yd. street paving.
20,000.00 lin.ft. 6-in. curb combined with 24-in. gutter.
8,000.00 lin.ft. 10-in. curb combined with 24-in. gutter.
500.00 lin.ft. double gutter 48 in. wide.
3,900.00 lin.ft. straight curb.
12,758.00 sq.ft. new cement walk.
2,867.05 sq.yds. plain concrete 6 in. for alley.
24 street monuments.
10 manhole covers, adjusted.
60 cu.yds. extra concrete for headers.
15,000.00 cu.yds. earthwork included in the cost per sq.yd. pavement.

Two hundred weather working days will be allowed to complete the whole of this work; the city reserves the right to accept or reject any and all bids; plans and specifications may be seen at the office of the City Engineer, at the City Hall.

Each bidder will be required to deposit with the City Clerk to the credit of the City of Roswell, without indorsement, a certified check of deposit in the sum of Five Thousand Dollars ($5,000.00) as a guarantee that he will file all bonds required and enter into contract, if awarded to him, according to the terms of his bid, within ten days after the certification of the award. Should the contractor fail to file bonds in an approved surety company or enter into a contract with the City of Roswell, then the certified check shall become forfeited as liquidated damages and the money realized therefrom shall be turned into the treasury of the City of Roswell.

WILLIS FORD, Mayor.
J. A. GILMORE, City Clerk.
LEA ROWLAND, City Engineer.

OFFICIAL PROPOSALS

Bids: July 25.

Eight Sections of Road Work

Baltimore, Md.

SEALED PROPOSALS for building eight sections of State Highway, as follows:

ANNE ARUNDEL CO., Contract AA-24—One section of State Highway along the New Cut Road from end of Contract 293 to Pumphrey, a distance of 1.3 miles (concrete).

ALLEGANY CO., Contract A-23—One section of State Highway along the Old National Pike from Cumberland toward Allegany Grove for a distance of 1.2 miles (macadam resurfacing).

ALLEGANY CO., Contract A-24—One section of State Highway from Frostburg to the Swimming Pool, a distance of 9.26 mile (concrete).

HOWARD CO., Contract HO-16—One section of State Highway from Clarksville toward Dayton, a distance of 1.5 miles (concrete).

MONTGOMERY CO., Contract M-33—One section of State Highway from Lelands Corner to Campbells Corner, a distance of 1.5 miles (concrete).

BALTIMORE CITY, Contract BC-40—One section of State Highway along 25th Street, between the York Road and the Harford Road, a distance of 0.75 mile (sheet asphalt).

BALTIMORE CO., Contract B-46—One section of State Highway along the Philadelphia Road from Golden Ring, toward the Harford Co. Line for a distance of 3.7 miles (alternate bids—sheet asphalt and concrete).

QUEEN ANNES CO., Contract Q-24—One section of State Highway from and of Contract Q-16 at Winchester to Kings' Store, a distance of 1.8 miles (concrete).

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 m. on the 25th day of July, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five hundred ($500.00) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 6th day of July, 1922.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids: July 25.

Sanitary Sewers

Gloversville, N. Y.

Sealed Proposals will be received by the Common Council of the City of Gloversville, N. Y., until 5 o'clock P.M., July 25, 1922, for furnishing all material and labor required for the construction of sanitary sewers of the following approximate quantities:

Inside Diameter	Lineal Feet
15 in.	890
12 in.	1640
10 in.	1330
8 in.	420
4 in.	1300

17 Manholes.

Each proposal will be accompanied by a deposit, of cash or certified check, in the amount of $1,100.00. Bond $11,000.00. The Common Council reserves the right to reject any and all bids.

H. J. HANMER,
City Engineer.

OFFICIAL PROPOSALS

Bids: July 31.

Paving

Washington, Pa.

Sealed proposals will be received by the Town Council of the Borough of Washington, Penna., at the Council Chamber until 7:30 p.m., July 31st, 1922, for the construction of about eighteen thousand (18,000 square yards of brick pavement (brick furnished by the borough) and for the resurfacing of about five thousand (5,000) square yards with bituminous pavement.

Each bid must be accompanied by a certified check in the amount of five per cent (5 per cent) of the contract price.

Plans and specifications may be obtained at the office of the Borough Engineer, and the right is reserved to reject any or all bids.

J. F. CURRAN,
President of Council.
JOHN GRIFFITHS,
Secretary of Council.

Make Plans Accessible to Distant Bidders

Plans and specifications for inspection by distant bidders may be filed at any of *Engineering News-Record* offices (without charge). Or a sufficient supply may be deposited at such of our offices as seem desirable, subject to your usual requirements in the matter of deposits, etc. (We assume full responsibility for return of plans or deposits). Therefore, Contractors in all parts of the country can bid with equal convenience on contracts advertised in *Engineering News-Record*.

Bids: July 31.

Paving Brick

Washington, Pa.

Sealed proposals will be received by the Town Council of the Borough of Washington, Penna., at the Council Chamber until 7:30 p.m., July 31st, 1922, for the furnishing of about seven hundred thousand (700,000) paving brick f.o.b. Washington, Pa.

Each bid must be accompanied by a certified check in the amount of five per cent (5 per cent) of the contract price.

Plans and specifications may be obtained at the office of the Borough Engineer, and the right is reserved to reject any or all bids.

J. F. CURRAN,
President of Council.
JOHN GRIFFITHS,
Secretary of Council.

OFFICIAL PROPOSALS

Bids: July 26.

Bridges and Road Work

Dover, Del.

Sealed proposals will be received by the State Highway Department, at its office, Dover, Delaware, until 2 o'clock p.m., July 26, 1922, and at that place and time publicly opened, for the construction of State Highway, involving the following approximate quantities:

CONTRACT 25-A

Smyrna Bridges

250	cu.yd. Excavation
2000	cu.yd. Borrow
570	cu.yd. Class A Concrete
150	cu.yd. Class B Concrete
49600	lb. Steel Reinforcement
2300	lin.ft. Concrete Piles
3500	ft. B. M. Sheeting
120	lin.ft. Test Piles

CONTRACT CN-5—1.45 Miles

Limestone Road

10800	cu.yd. Excavation
6000	cu.yd. Borrow
800	cu.yd. Rock Excavation
160	tons Broken Stone Base Course
2800	cu.yd. Cement Concrete Pavement
320	cu.yd. Class A Concrete
120	cu.yd. Class B Concrete
80	cu.yd. Cement Rubble Masonry
20300	lb. Reinforcement
220	lin.ft. 15-in. R. C. Pipe
100	lin.ft. 18-in. R. C. Pipe
28	lin.ft. 24-in. R. C. Pipe
54	lin.ft. 42-in. R. C. Pipe
180	lin.ft. Relaid Pipe, 18-in. and under
800	lin.ft. 4-in. Pipe Underdrain
1700	sq.yd. Class A Concrete Gutter
1000	lin.ft. Wire Cable Guard Rail

Performance of contract shall commence within ten (10) days after execution of the contract and be completed on or before December 15, 1922.

Monthly payments will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check, or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the Construction of State Highway under Contract No. 25-A."

The Contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Detailed plans may be seen and index plans and specifications may be obtained upon deposit of ten dollars ($10.00) which amount will be refunded upon return of plans and specifications in good condition at the Office of

STATE HIGHWAY DEPARTMENT.
Dover, Delaware.

Plant Equipment Not Your Whole Problem

¶You are quick to recognize the value of the most improved and efficient apparatus in your plant equipment. ¶You cretainly would not consider replacing your motor truck equipment with horses nor your steam shovel or cable-way with less efficient methods. ¶And yet, important as these things are, they are not your whole problem. ¶There have been important developments in the methods of handling Contract Bonds and Compensation insurance that are equally vital to you. ¶Swart has scientifically developed this service to the point where, judging it with the ordinary sort the result is a Contrast rather than a Comparison. ¶It will cost you nothing to find out more about it whereas the cost of not knowing may be greater than you would care to reckon.

HARMON V. SWART
Contract Bonds *Compensation Insurance*
92 William Street, New York

CONTRACT BONDS FOR RESPONSIBLE CONTRACTORS

Ætna bond agents develop a superiority in service to clients as a logical result of their connection with one of the leading companies in the field.

ÆTNA CASUALTY AND SURETY COMPANY

HARTFORD, CONN. AGENTS EVERYWHERE

OFFICIAL PROPOSALS

Bids: July 26.

Concrete Paving

Westfield, Mass.

Sealed proposals for paving Franklin Street, Westfield, Mass., with reinforced concrete, will be received by the Board of Public Works at their office, City Hall, Westfield, Mass., until 2 P.M., July 26th, 1922, and at that place and time will be publicly opened and read.

Length of pavement about 4,400 ft., width 20 ft., thickness 7 in. Bituminous macadam shoulders.

Plans may be seen and forms of specification and contract may be obtained at the office of the Superintendent of the Board of Public Works, City Hall, Westfield, Mass.

The right is reserved to reject any and all proposals, or to accept the proposal deemed best for the City of Westfield.

CHESTER H. ABBE,
JOHN O. McKEAN,
PETER JENSEN,
Board of Public Works.

OREN E. PARKS,
Superintendent.

Bids: July 24.

Concrete Box Sewer

Annville, Penna.

Sealed bids will be received by the Board of Commissioners of Annville Township, Lebanon County, Penna., until 8:00 o'clock p.m., July 24th, 1922, at which time they will be publicly opened at the Town Hall, for the construction of a reinforced concrete Box Sewer, approximately six hundred and seventy-five feet in length, and three and one-half feet, by three and three-fourths feet, inside dimensions.

Plans and specifications may be obtained from the Township Clerk.

Each proposal must be accompanied by a certified check, in the amount of Two Hundred Dollars ($200.00) made payable to the Township Treasurer.

All bids must be made upon blanks furnished by the undersigned.

The right is reserved to reject any or all bids.

By order of the Board of Commissioners.
D. M. RANK,
President.
JOHN G. NYE,
Township Clerk.

Bids: July 20.

Street Improvement

North Adams, Mass.

Sealed bids will be received by the Commissioner of Public Works, City Hall, North Adams, Mass., until 4 o'clock P.M., July 20, 1922, for the following improvements on State Street, consisting of about:

3,000 cubic yards of excavation.
7,000 square yards concrete roadway.
2,200 square yards concrete combination curb and sidewalk.
950 linear feet of granite curbing reset.

Each bid must be marked "Proposals for Street Improvement" and to be accompanied by a certified check for not less than 5 per cent of the price bid, payable to the Treasurer of the City of North Adams, Mass., as a guarantee that if the contract is awarded, it will be executed within ten days of notice of award.

Specifications may be had at the office of the Commissioner.

The right is reserved to reject any or all bids.

JACKSON L. TEMPLE,
Commissioner of Public Works.

Bids: Aug. 1.

Street Paving

Oil City, Pa.

Sealed proposals will be received at the office of the City Controller of Oil City, Penna., up to 4:00 P.M., Tuesday, August 1, 1922, for resurfacing various streets, amounting to about 41,000 square yards of asphaltic resurfacing; also for grading and paving two alleys, amounting to 3,700 square yards of reinforced concrete, brick or asphalt. Each bid for the resurfacing contract must be accompanied by a certified check for $5,000.00, the required check for the two alley contracts being $300.00 each.

Specifications and proposal blanks may be obtained from the undersigned.

The City reserves the right to reject any or all bids.

B. B. WEBER,
City Engineer.

Bids: July 25.

Highway Work

Raleigh, N. C.

Sealed bids for the construction of the following projects will be received by the North Carolina State Highway Commission at Raleigh, N. C., until 10 A.M., on the 25th day of July, 1922, when they will be opened and read:

Hard surface (Concrete or Asphaltic Paving projects), including grading, reinforced concrete or cast iron pipe, structures, etc.

Project No.	County.	Length (miles)
173	Pasquotank	7.22
183-A	Pitt	13.54
236	Johnston	14.83
342	Cumberland	5.91
484	Wake	8.79
494	Warren	6.21
535	Guilford	7.78
713	Ashe	3.53
764	Surry	1.63

Topsoil, Sand Clay, or Gravel projects, including grading, drainage pipe, structures, etc.

131	Gates	13.50
132	Gates	9.73
569	Moore	18.97
814	Burke	8.69
952	Jackson	
963	Macon	8.68

MACADAM PROJECTS

Penetration or waterbound Macadam Projects, including drainage pipe, structures, etc.

602	Alexander	9.28
640	Iredell	8.17
702-A	Alleghany	7.75
888	Yancey	15.22

BRIDGE PROJECT

694	Union	5.40 ft. rein.-con. through girders.

Specifications, proposals, forms, etc., may be obtained from the State Highway Commission at Raleigh, N. C.

Plans may be seen in the Raleigh office, or in the offices of the District Engineer.

Bridge plans may be obtained from the State Highway Commission at Raleigh, N. C., upon payment of five ($5.00) dollars per set.

The right is reserved to reject any or all bids.

By order of the North Carolina State Highway Commission.

Bids: July 31.

Tenders for Incinerator

Chatham, Canada.

Sealed Bids will be received by the undersigned up to 4 p.m., Monday, July 31st, for the construction of a mixed garbage and refuse incinerator for the City of Chatham, Ontario.

Each bid must be accompanied by a satisfactory bidder's bond for 5% of the bid price.

A deposit of Five dollars is required to obtain plans and specifications. Further information will be supplied at the office of the City Engineer and Manager, Chatham, Ont.

The City reserves the right to reject any or all bids.

C. H. R. FULLER,
City Engineer and Manager.

Bids: July 24.

Grading, Curbing, etc.

Columbia, Mo.

SEALED PROPOSALS will be received by the undersigned City Clerk of the City of Columbia, Boone County, Missouri, until four o'clock p.m., the 24th day of July, 1922, for the grading, curbing and guttering and paving with Kentucky Rock Asphalt of five streets in said city, according to the plans and specifications on file with the undersigned. Approximately 5,700 lin.ft. curb and gutter, 10,500 sq.yd. of paving. For further information address

JOHN S. BICKNELL, City Clerk.

WANTED—TO SUBLET

40,000 square yards of Waterbound Macadam. State Highway work—Western North Carolina. Equipment installed and operating. May be bought or sold to responsible parties only.

W-653 Engineering News-Record
509 Real Estate Trust Bldg., Phila.

Bids: July 26.

Concrete Wharf and Transit Shed Foundation

Tampa, Fla.

Sealed bids will be received by the City Commission of the City of Tampa until twelve o'clock noon on the 26th day of July, 1922, for furnishing all materials, labor and equipment necessary to construct a reinforced concrete wharf and transit shed foundation at the municipal slip on the Estuary in the City of Tampa, according to the plans and specifications on file in the office of the City Manager, copies of which may be obtained upon application, for the sum of Ten Dollars ($10.00), payable in advance.

Each bid must be accompanied with a certified check for five percent (5%) of the amount of the bid, payable to the City Clerk of the City of Tampa, to be retained by the City Commission until the contract is awarded and acceptable bonds filed, at which time checks will be returned to the unsuccessful bidders.

The right to reject any or all bids within forty-five (45) days from the date herein specified is reserved by the Commission.

Bidders are requested to examine the location before submitting bids.

Following are the estimated approximate quantities:

(a) Wood sheet pile bulkhead, length 2,288 lineal feet.
(b) Wood piles for retaining wall and pedestal foundation. Number of piles 879.
(c) Lumber for bulkhead caps, wales and flooring. Number of feet B. M. 102,614.
(d) Concrete for bulkhead, retaining wall and foundation pedestals. Number of cubic yards 2,186.
(e) Concrete platform piles. Lineal feet 19,526.
(f) Straight concrete plaform, thirty (30) feet wide, with railroad track. Number of lineal feet 1,476.
(g) Straight concrete platform, thirty (30) feet wide, without railroad tracks. Number of lineal feet 695.
(h) All concrete platform other than straight work. Number of square feet of platform 3,848.
(i) Rock fill. Number of cubic yards 15,000.
(j) Earth fill. Number of cubic yards 40,000.
(k) Sewer outlet 36 in. cast iron pipe. Number of lineal feet 84.

R. D. MARTIN, City Engineer.
A. W. D. HALL, City Manager.
SIGNED: C. H. BROWN,
Mayor-Commissioner.
ATTEST: WM. E. DUNCAN,
City Clerk.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, P. O. Box 72, Louisville, Ky. Sealed proposals will be received here until 2 p.m., Central Time, July 18, 1922, and then opened for furnishing and delivering steel sheet piling for Dam No. 44, Ohio River. Further information on application.

PROPOSALS FOR STEEL HULL.—U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 A. M., July 31, 1922, and then opened, for furnishing one steel hull for dipper dredge Upatoi. Further information on application.

U. S. ENGINEER OFFICE, Buffalo, N. Y. Sealed proposals will be received here until 11 a.m. (Eastern standard time), July 27, 1922, and then opened, for constructing rubble mound east breakwater extension at Fairport Harbor, O. Further infomation on application.

PROPOSALS FOR LEVEE WORK—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals will be received here until 11 a.m., July 20, 1922, and then opened, for constructing about 690,000 cubic yards of earthwork in the White River Levee District. Further information on application.

U. S. ENGINEER OFFICE, Room 710, Army Building, 39 Whitehall Street, New York, N. Y. Sealed proposals will be received here until 12 m., August 7, 1922 (daylight saving time), and then opened, for dredging and rock removal in Bronx River, N. Y. Further information on application.

U. S. GOVERNMENT

PROPOSALS FOR ONE MARINE TYPE REFRIGERATING AND ICE MAKING PLANT.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals for furnishing and delivering one Marine Type Refrigerating and Ice Making Plant will be received at this office until 11 a.m., July 15, 1922, and then opened. Further information on application.

U. S. ENGINEER OFFICE, Pittsburgh, Pa. Sealed proposals will be received here until 12 noon (Eastern time) July 19, 1922, and then opened, for furnishing and delivering one steel derrick boat hull. Further information on application.

U. S. ENGINEER OFFICE, Buffalo, N. Y. Sealed proposals will be received here until 11 a.m. (Standard Time), July 17, 1922, and then opened, for constructing rubble mound extension of west breakwater, Ashtabula Harbor, O. Further information on application.

U. S. ENGINEER OFFICE, P. O. Box 72, Louisville, Ky. Sealed proposals will be received here until 2 p.m., Central Time, July 17, 1922, and then opened, for furnishing and delivering Metal Work for Navigable Pass for Dam No. 44, Ohio River. Further information on application.

DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., July 5, 1922.—SEALED PROPOSALS will be received at the office of the United States Reclamation Service, Denver, Colorado, until 2 o'clock p.m., August 18, 1922, and will at that hour be opened, for furnishing radial gates, radial gate hoists, geared hoists, operating machinery and other metal work, for the Riverton project, Wyoming. The material to be furnished will require approximately 170,000 pounds of metal work. For particulars address the United States Reclamation Service, Washington, D. C., Denver, Colorado, or Riverton, Wyoming. A. P. Davis, Director.

U. S. GOVERNMENT

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 5, 1922.—SEALED PROPOSALS will be opened in this office at 3 p.m., July 31, 1922, for the construction (exclusive of mechanical equipment) of an Additional Wing to the Main Hospital Building, of the United States Public Health Service Hospital at Tanner's Creek, Norfolk, Va., in accordance with drawings and specifications, which may be obtained from Neal A. Melick, Superintendent of Construction, at the Site of the Hospital, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid, shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

U. S. ENGINEER OFFICE, 815 Witherspoon Bldg., Philadelphia, Pa. Bids are wanted until Aug. 7, 1922, for dredging in Delaware River in front of Camden, N. J. Further information on application.

U. S. ENGINEER OFFICE, 250 Old Land Office Building, Washington, D. C. Sealed proposals will be received here until 12 m., July 17, 1922, and then opened for the construction of item b, section No. 2 of Division No. 1: Division No. 2: and Division No. 3 of the water supply conduit for the District of Columbia. Further information on application.

PROPOSALS FOR WIRE MESH AND MACHINE BOLTS. — Office, Mississippi River Commission, 1st and 2nd Districts, Custom House, Memphis, Tenn.—Sealed proposals for furnishing and delivering wire mesh and machine bolts will be received at this office until 11 a.m., July 25, 1922, and then opened. Further information on application.

U. S. GOVERNMENT

SEALED PROPOSALS, INDORSED "PROPOSALS FOR DISTILLING PLANT, KEY WEST, FLA., Specification No. 4546," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock a.m., August 2, 1922, and then and there publicly opened, for an addition to power house, including foundations for all equipment; for laying approximately 800 lineal feet of 20-inch, cast iron, bell and spigot circulating water pipe; for the installation of six evaporators, two condensers, two distilled water and two dense sea water pumps, one drip trap, and certain fittings and valves to be furnished by the Government, and for furnishing and installing a traveling crane, two turbine-driven, centrifugal circulating pumps, a combined twin pump and receiver, three drip traps, oil separator, sluice gates, and strainers including operating mechanism in connection with the circulating water mains, all necessary accessories and complete piping systems for distilling plant equipment at the Naval Operating Base, (Naval Station) Key West, Fla. The distilling house will have concrete foundations, supported on concrete piles, concrete ground floor and equipment foundations, brick walls, asbestos shingle roof, steel roof trusses and steel sash, doors, platforms and stair. Drawings and Specification No. 4546 may be obtained on application to the Bureau or to the Commandant, Naval Operating Base, Key West, Fla. Deposit of a check or postal money order for $10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification. L. E. GREGORY, Chief of Bureau.

June 6, 1922.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 5, 1922—SEALED PROPOSALS will be opened in this office at 3 p.m., August 2, 1922, for clearing the site of the United States Post Office at Spanish Fork, Utah. Specifications may be obtained from the Custodian of the site at Spanish Fork, Utah, or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Engineering News-Record

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Dredging	**Sewers**
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